FIG. 1

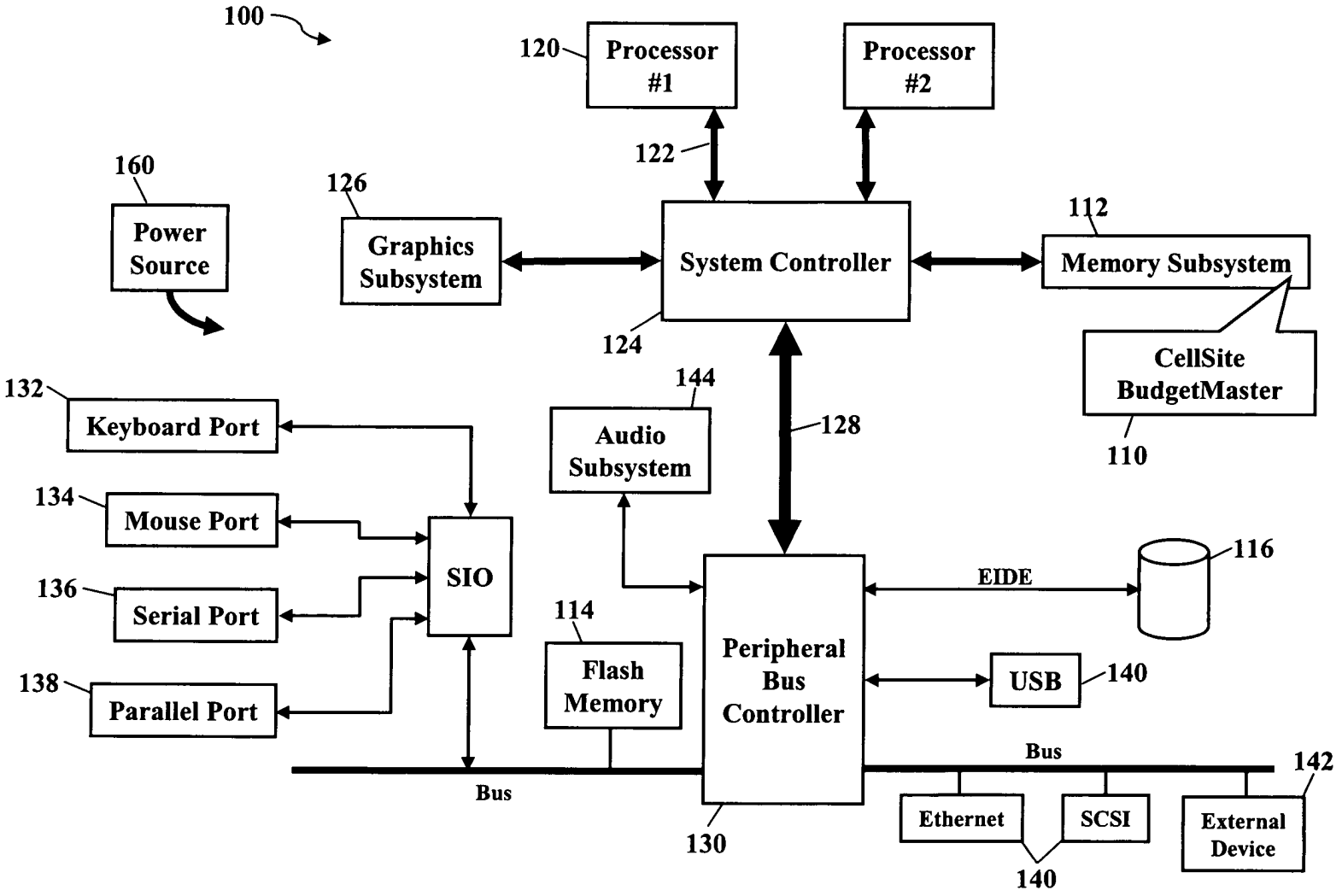
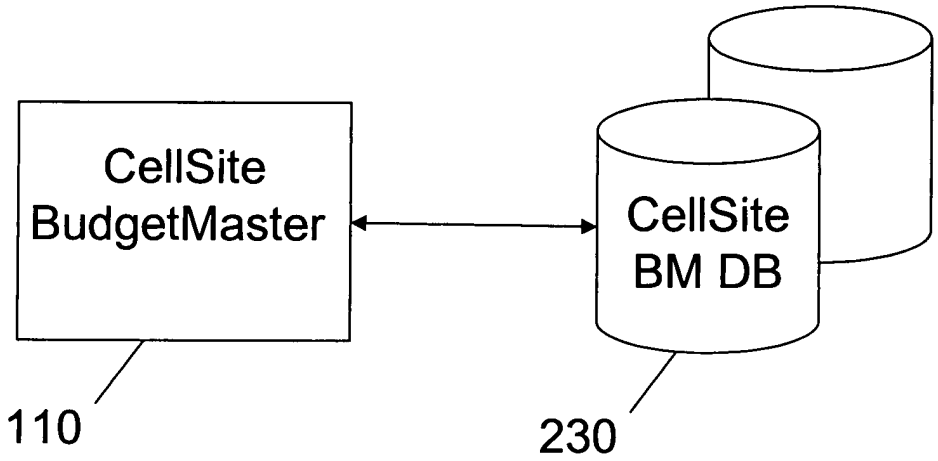

100
120
Processor #1
Processor #2
122
160
Power Source
126
Graphics Subsystem
System Controller
112
Memory Subsystem
124
CellSite BudgetMaster
110
144
Audio Subsystem
128
132
Keyboard Port
134
Mouse Port
136
Serial Port
138
Parallel Port
SIO
114
Flash Memory
Peripheral Bus Controller
EIDE
116
USB
140
Bus
Bus
142
Ethernet
SCSI
External Device
130
140

FIG. 2



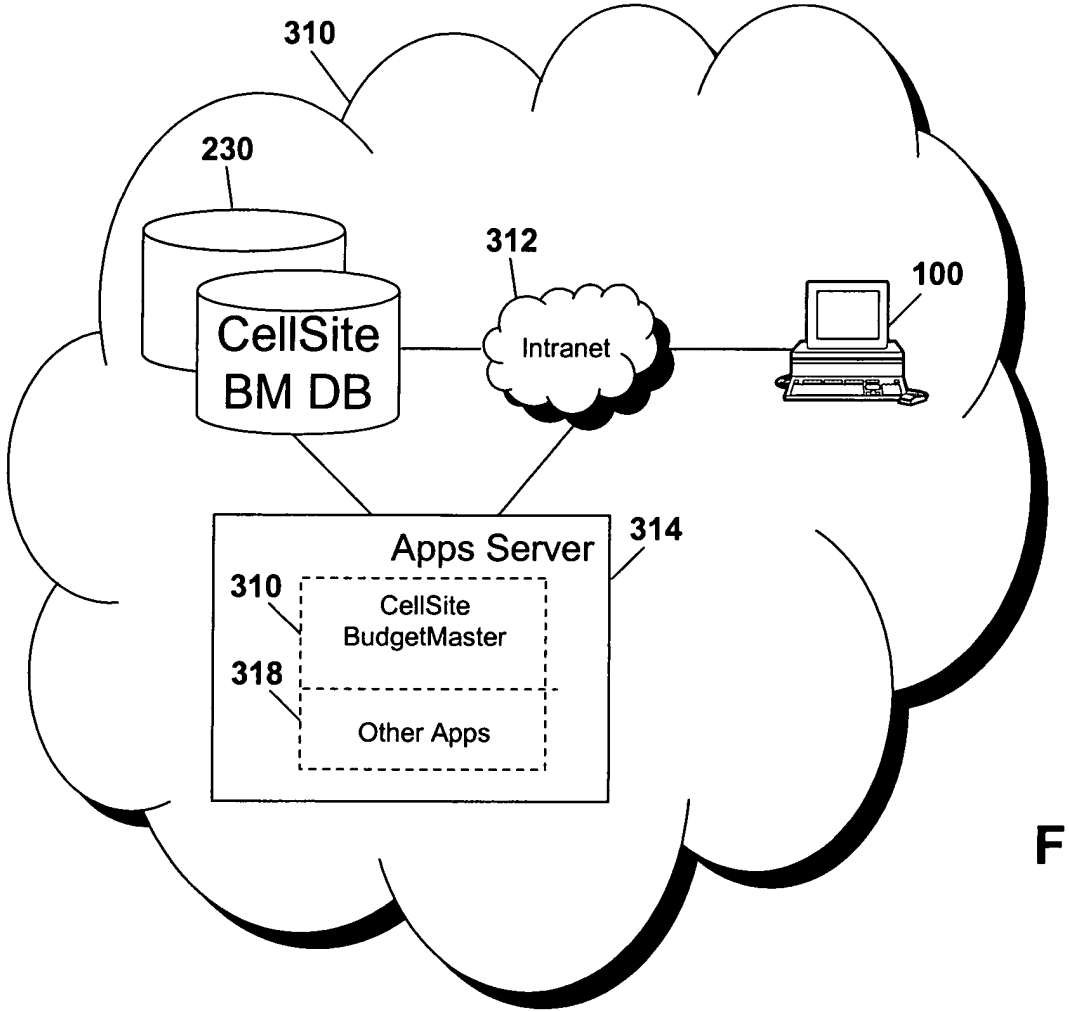

310
230
CellSite
BM DB
312
Intranet
100
Apps Server
314
310
CellSite
BudgetMaster
318
Other Apps

FIG. 3

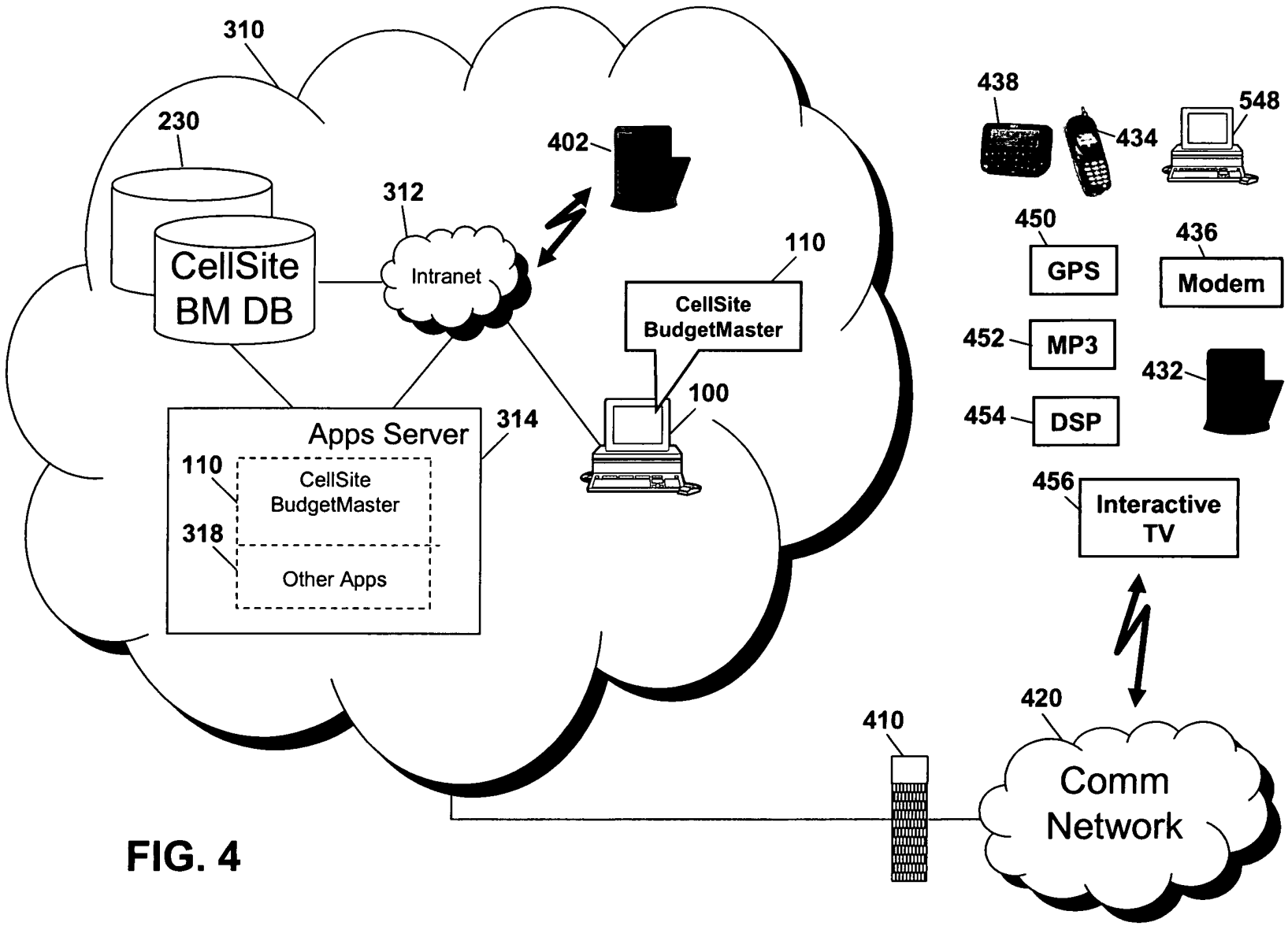
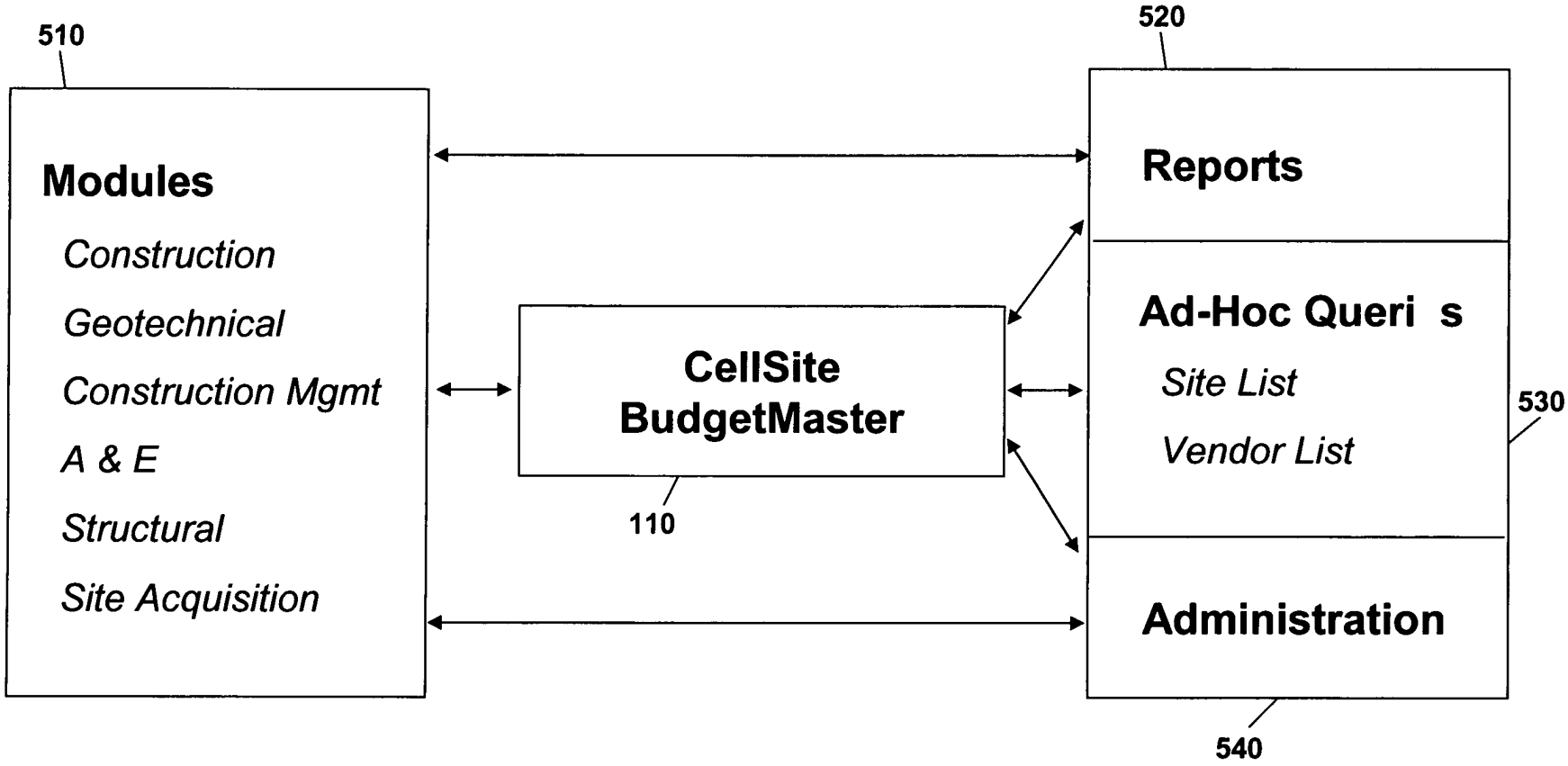

310
230
CellSite
BM DB
312
Intranet
402
110
CellSite
BudgetMaster
100
Apps Server
314
110
CellSite
BudgetMaster
318
Other Apps
438
434
548
450
GPS
436
Modem
452
MP3
432
454
DSP
456
Interactive
TV
420
410
Comm
Network

FIG. 4

FIG. 5


510
Modules
Construction
Geotechnical
Construction Mgmt
A & E
Structural
Site Acquisition
CellSite
BudgetMaster
110
520
Reports
Ad-Hoc Queri s
Site List
Vendor List
530
Administration
540

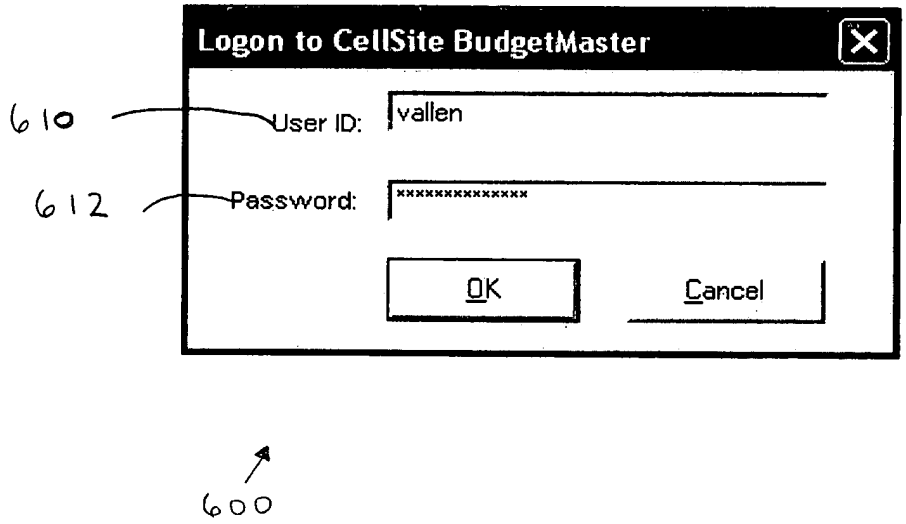
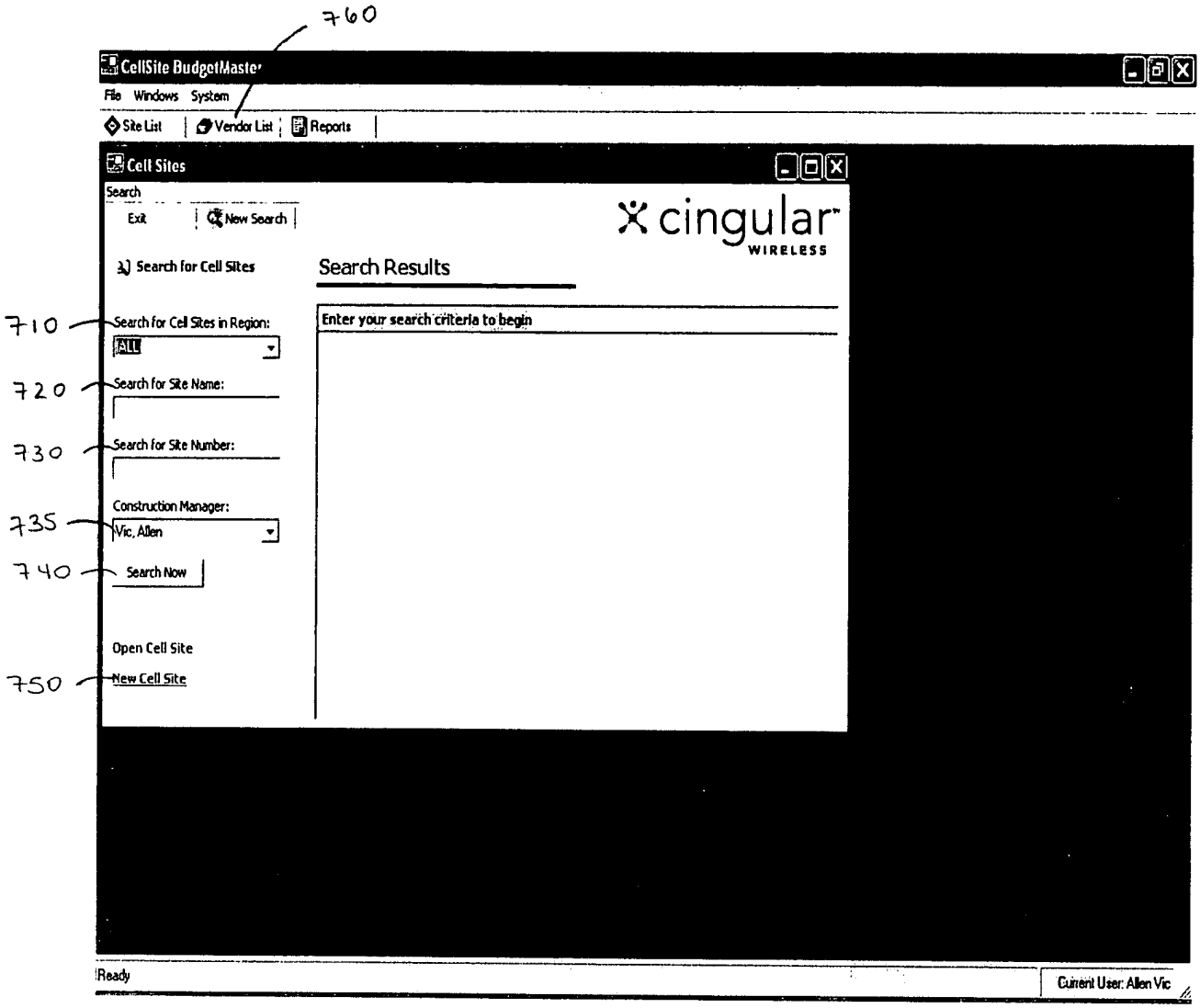

Logon to CellSite BudgetMaster
610
User ID:
vallen
612
Password:
****
OK
Cancel
600

FIG. 6


760
CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites
Search
Exit
New Search
cingular
WIRELESS
Search for Cell Sites
Search Results
710
Search for Cell Sites in Region:
ALL
720
Search for Site Name:
730
Search for Site Number:
Construction Manager:
735
Vic, Allen
740
Search Now
Enter your search criteria to begin
Open Cell Site
750
New Cell Site
Ready
Current User: Allen Vic

700

FIG. 7

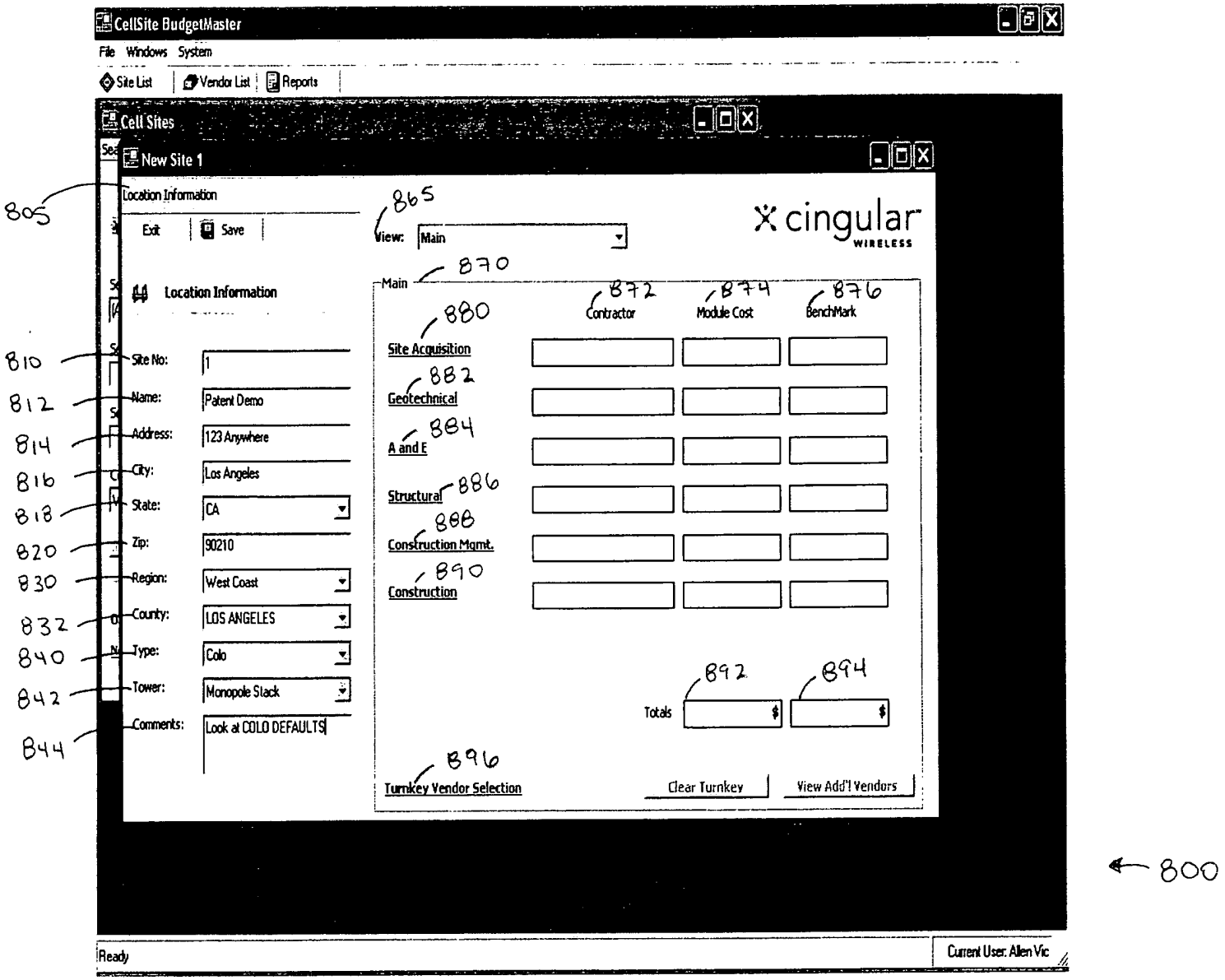

CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites
New Site 1
Location Information
Exit
Save
Location Information
Site No: 1
Name: Patent Demo
Address: 123 Anywhere
City: Los Angeles
State: CA
Zip: 90210
Region: West Coast
County: LOS ANGELES
Type: Colo
Tower: Monopole Stack
Comments: Look at COLO DEFAULTS
View: Main
cingular WIRELESS
Main
Contractor
Module Cost
BenchMark
Site Acquisition
Geotechnical
A and E
Structural
Construction Mgmt.
Construction
Totals
Turnkey Vendor Selection
Clear Turnkey
View Add'l Vendors
Ready
Current User: Allen Vic
805
810
812
814
816
818
820
830
832
840
842
844
865
870
872
874
876
880
882
884
886
888
890
892
894
896
800

FIG. 8

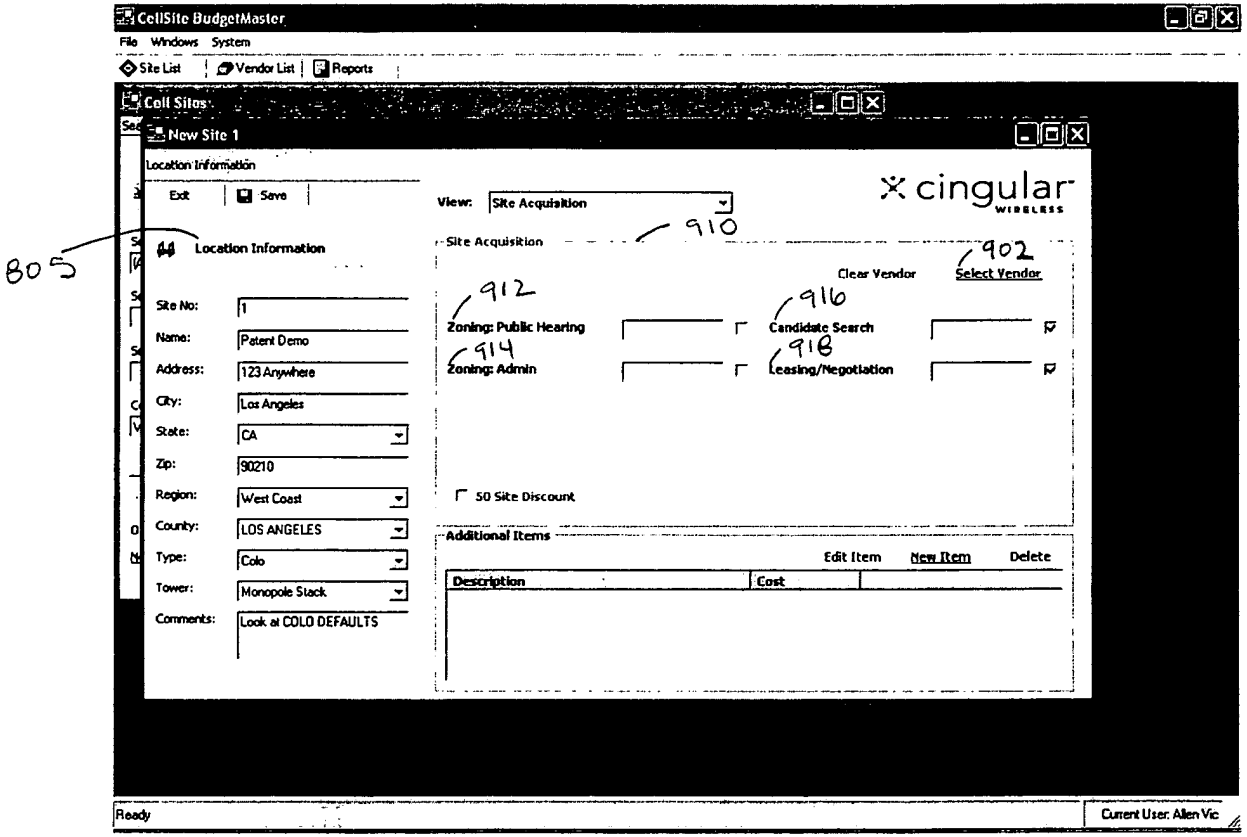
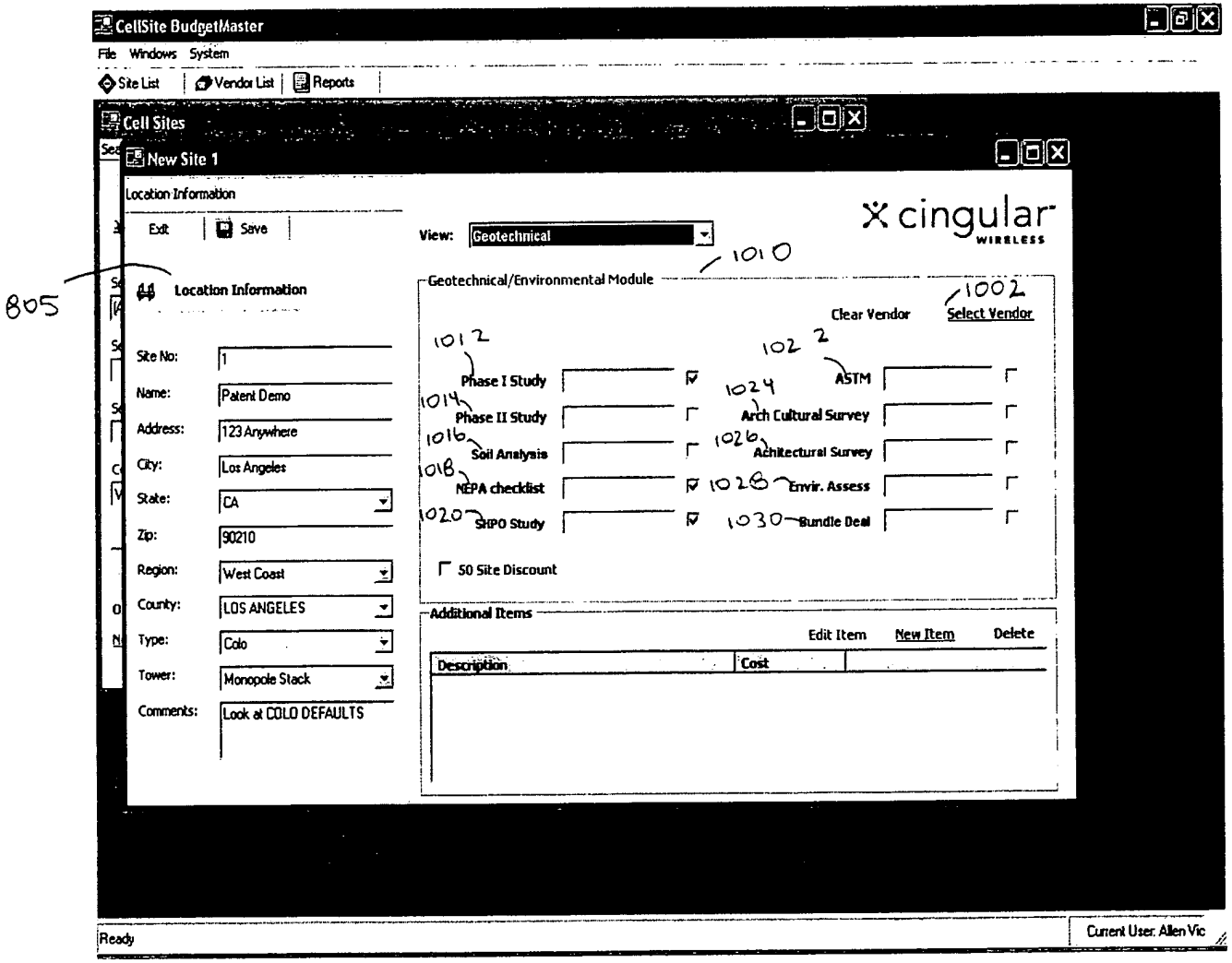
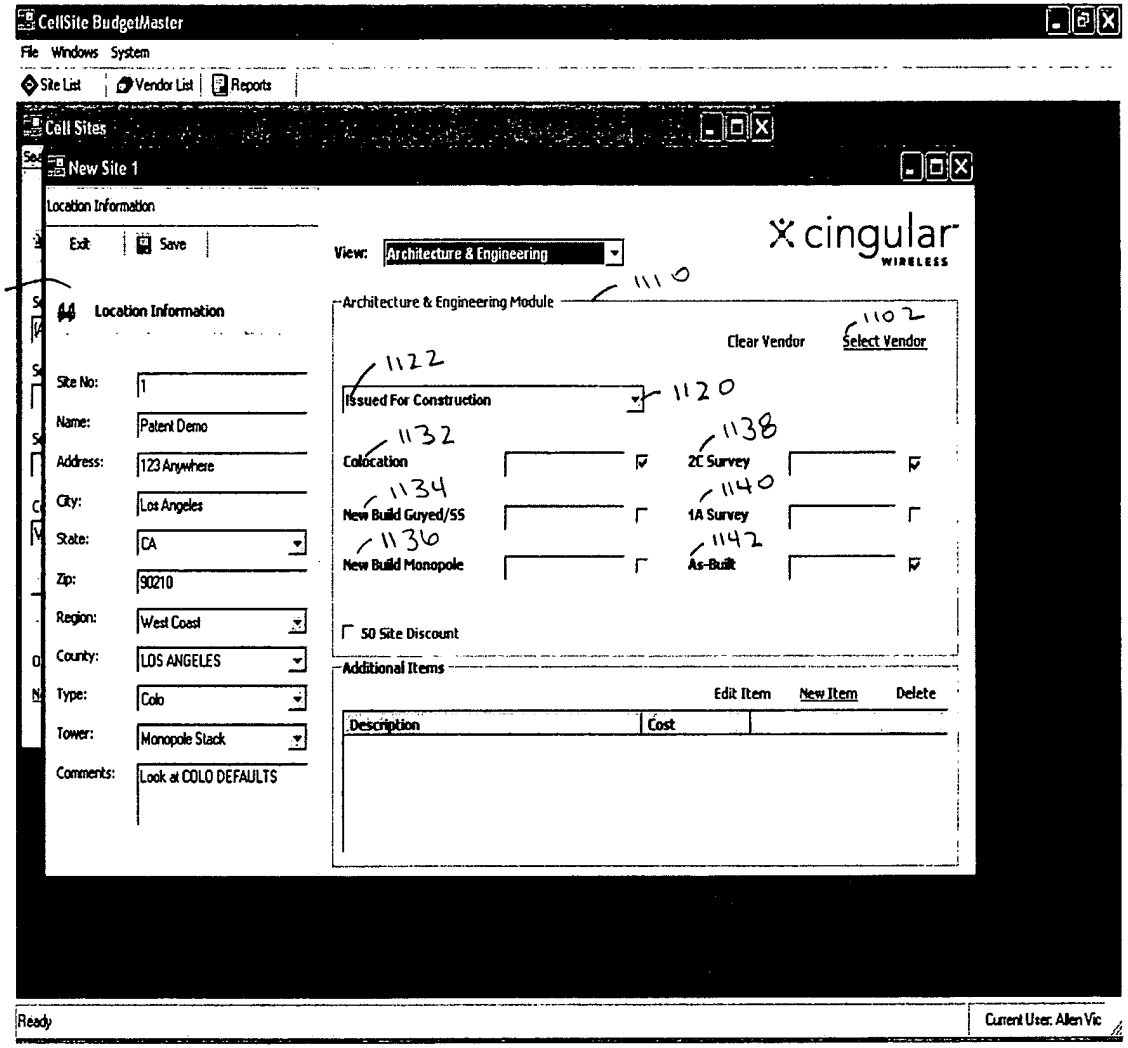

CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites:
New Site 1
Location Information
Exit
Save
Location Information
Site No: 1
Name: Patent Demo
Address: 123 Anywhere
City: Los Angeles
State: CA
Zip: 90210
Region: West Coast
County: LOS ANGELES
Type: Colo
Tower: Monopole Stack
Comments: Look at COLO DEFAULTS
View: Site Acquisition
cingular WIRELESS
Site Acquisition
Clear Vendor
Select Vendor
Zoning: Public Hearing
Zoning: Admin
Candidate Search
Leasing/Negotiation
50 Site Discount
Additional Items
Edit Item
New Item
Delete
Description
Cost
Ready
Current User: Allen Vic
805
910
902
912
916
914
918
900

FIG. 9


CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites
New Site 1
Location Information
Exit
Save
805
Location Information
Site No: 1
Name: Patent Demo
Address: 123 Anywhere
City: Los Angeles
State: CA
Zip: 90210
Region: West Coast
County: LOS ANGELES
Type: Colo
Tower: Monopole Stack
Comments: Look at COLO DEFAULTS
View: Geotechnical
1010
cingular WIRELESS
Geotechnical/Environmental Module
1002
Clear Vendor
Select Vendor
1012
1022
Phase I Study
ASTM
1014
1024
Phase II Study
Arch Cultural Survey
1016
1026
Soil Analysis
Architectural Survey
1018
1028
NEPA checklist
Envir. Assess
1020
1030
SHPO Study
Bundle Deal
50 Site Discount
Additional Items
Edit Item
New Item
Delete
Description
Cost
Ready
Current User: Allen Vic

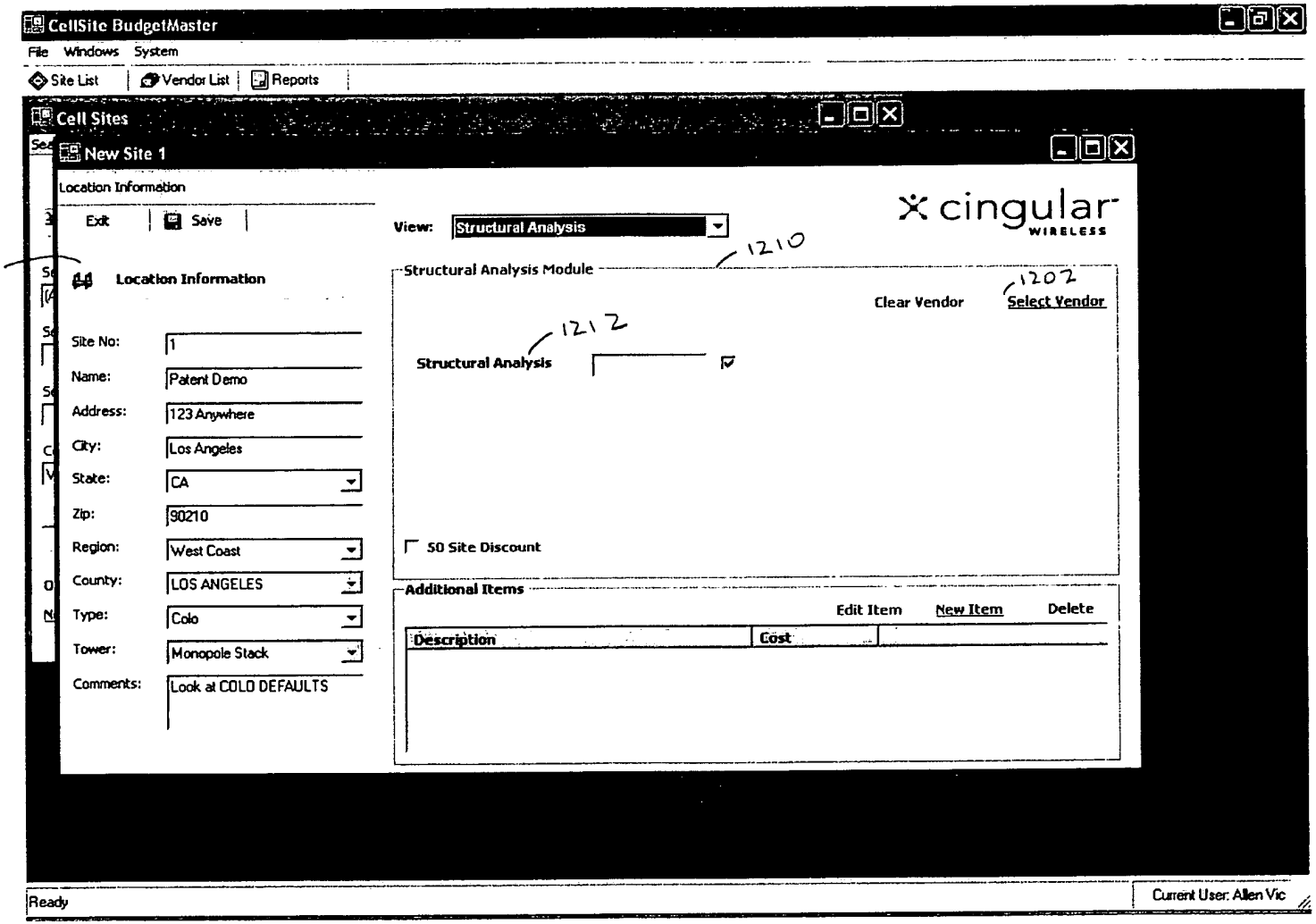
1000

FIG. 10


CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites
New Site 1
Location Information
Exit
Save
View:
Architecture & Engineering
cingular
WIRELESS
805
Location Information
Site No:
1
Name:
Patent Demo
Address:
123 Anywhere
City:
Los Angeles
State:
CA
Zip:
90210
Region:
West Coast
County:
LOS ANGELES
Type:
Colo
Tower:
Monopole Stack
Comments:
Look at COLO DEFAULTS
Architecture & Engineering Module
1110
Clear Vendor
Select Vendor
1102
1122
Issued For Construction
1120
1132
Colocation
1138
2C Survey
1134
New Build Guyed/SS
1140
1A Survey
1136
New Build Monopole
1142
As-Built
50 Site Discount
Additional Items
Edit Item
New Item
Delete
Description
Cost
Ready
Current User: Allen Vic

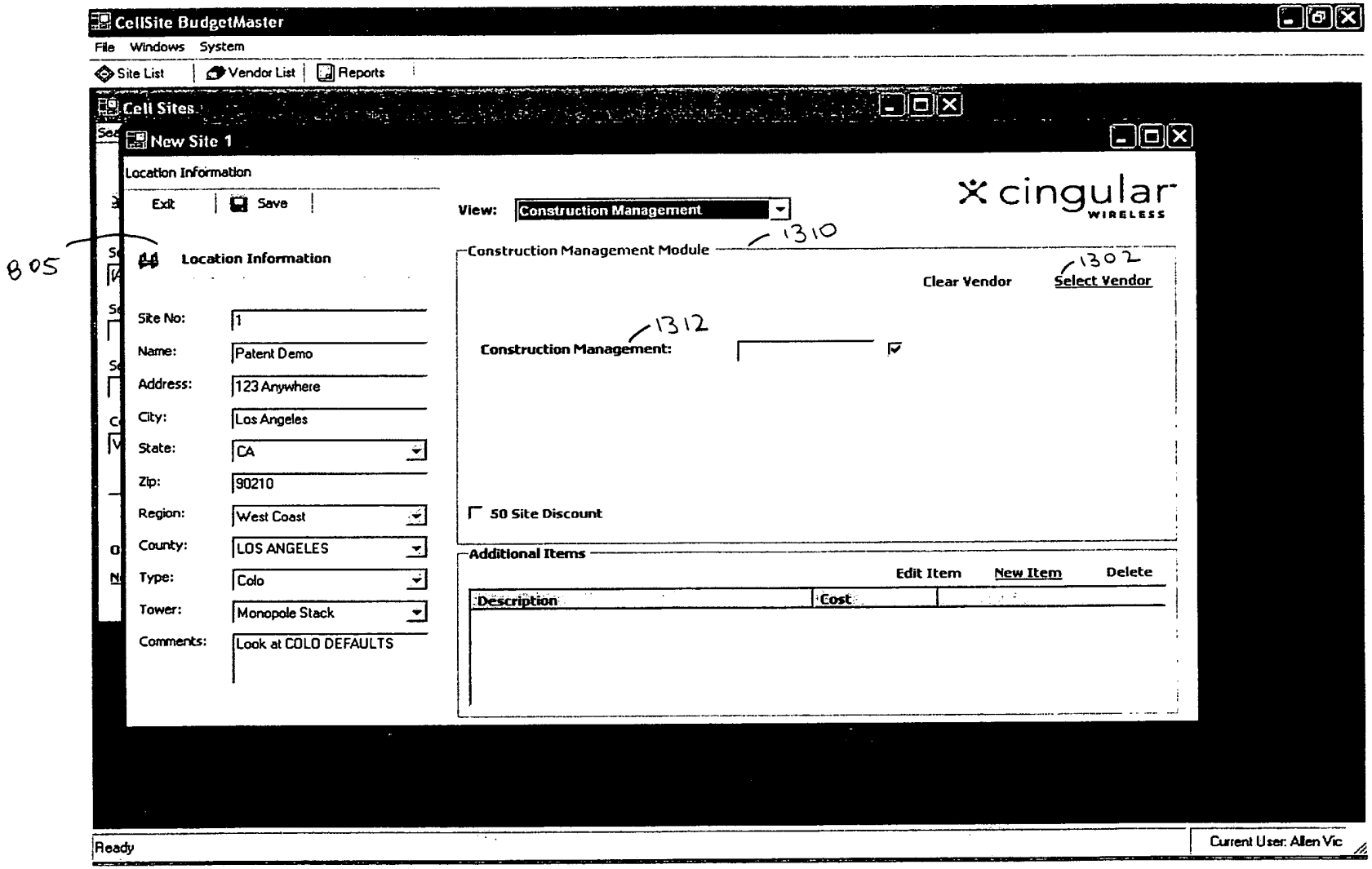
1100

FIG. 11


CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites
New Site 1
Location Information
Exit
Save
805
Location Information
Site No: 1
Name: Patent Demo
Address: 123 Anywhere
City: Los Angeles
State: CA
Zip: 90210
Region: West Coast
County: LOS ANGELES
Type: Colo
Tower: Monopole Stack
Comments: Look at COLO DEFAULTS
View: Structural Analysis
1210
cingular WIRELESS
Structural Analysis Module
1202
Clear Vendor
Select Vendor
1212
Structural Analysis
50 Site Discount
Additional Items
Edit Item
New Item
Delete
Description
Cost
Ready
Current User: Allen Vic

1200

FIG. 12


CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites
New Site 1
Location Information
Exit
Save
805
Location Information
Site No: 1
Name: Patent Demo
Address: 123 Anywhere
City: Los Angeles
State: CA
Zip: 90210
Region: West Coast
County: LOS ANGELES
Type: Colo
Tower: Monopole Stack
Comments: Look at COLO DEFAULTS
View: Construction Management
cingular WIRELESS
1310
Construction Management Module
1302
Clear Vendor
Select Vendor
1312
Construction Management:
50 Site Discount
Additional Items
Edit Item
New Item
Delete
Description
Cost
Ready
Current User: Allen Vic

1300

FIG. 13

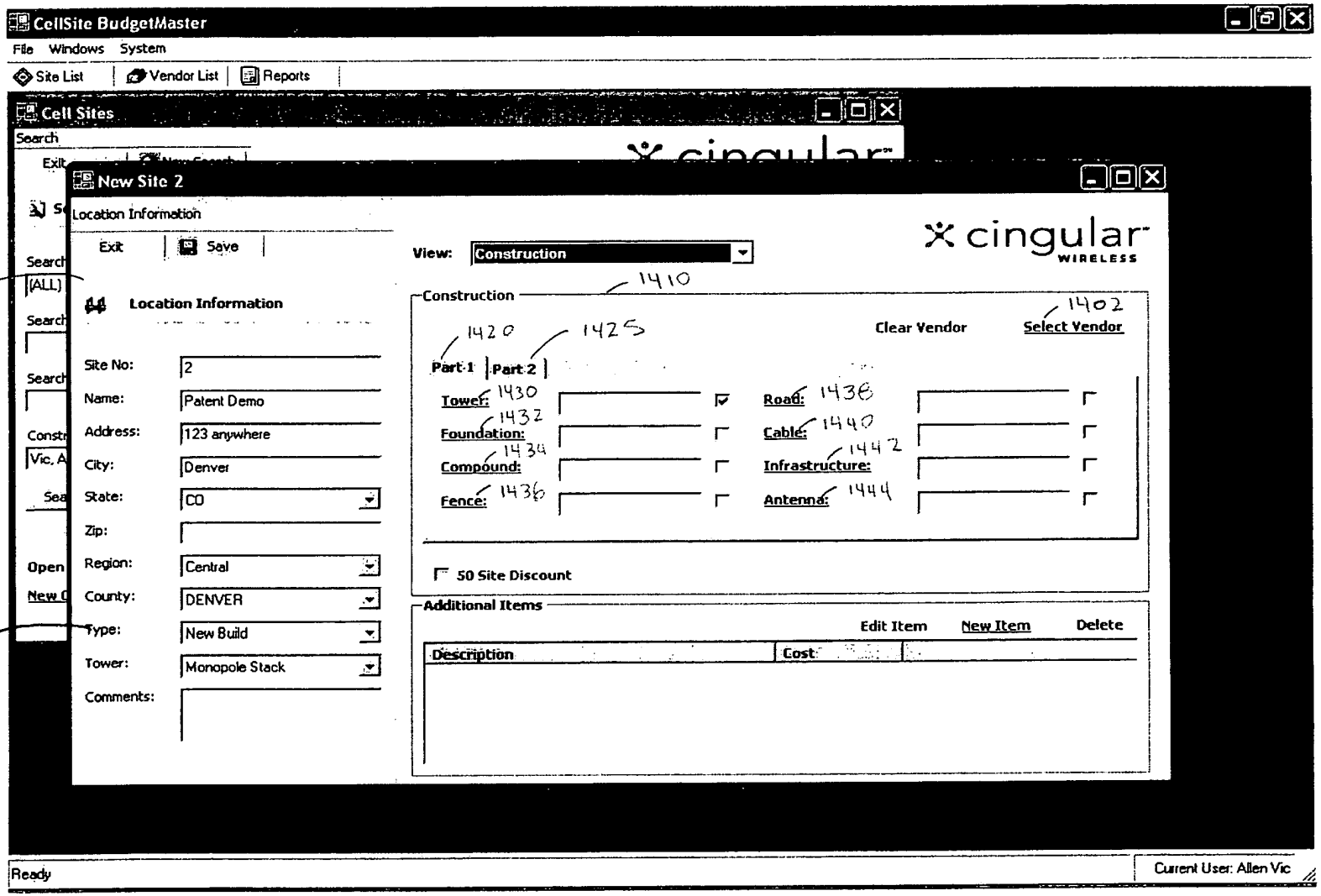

CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites
Search
cingular
New Site 2
Location Information
Exit
Save
View:
Construction
cingular WIRELESS
805
Location Information
Site No:
2
Name:
Patent Demo
Address:
123 anywhere
City:
Denver
State:
CO
Zip:
Region:
Central
County:
DENVER
Type:
New Build
Tower:
Monopole Stack
Comments:
840
1410
Construction
1420
1425
Clear Vendor
1402
Select Vendor
Part 1
Part 2
Tower:
1430
Foundation:
1432
Compound:
1434
Fence:
1436
Road:
1438
Cable:
1440
Infrastructure:
1442
Antenna:
1444
50 Site Discount
Additional Items
Edit Item
New Item
Delete
Description
Cost
Ready
Current User: Allen Vic
1400

FIG. 14

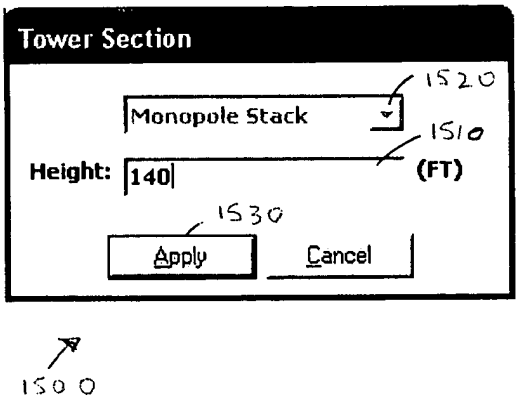

Tower Section
1520
Monopole Stack
1510
Height:
140
(FT)
1530
Apply
Cancel
1500

FIG. 15

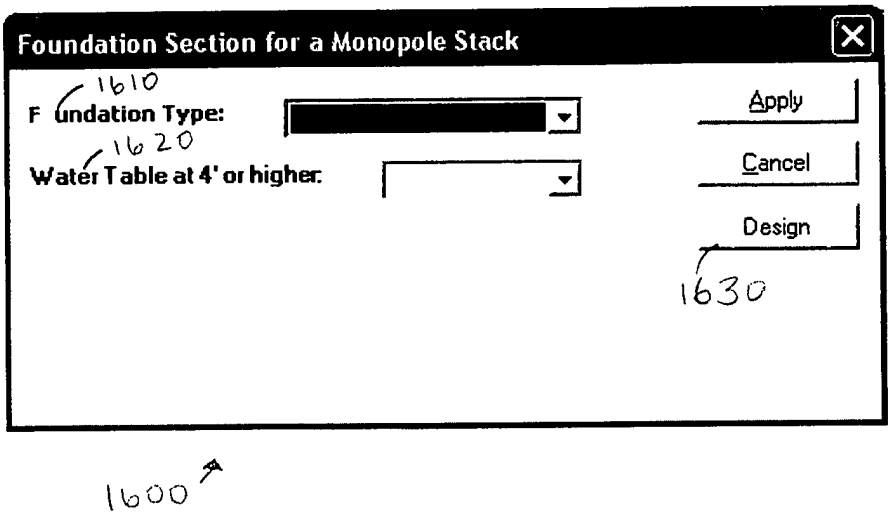
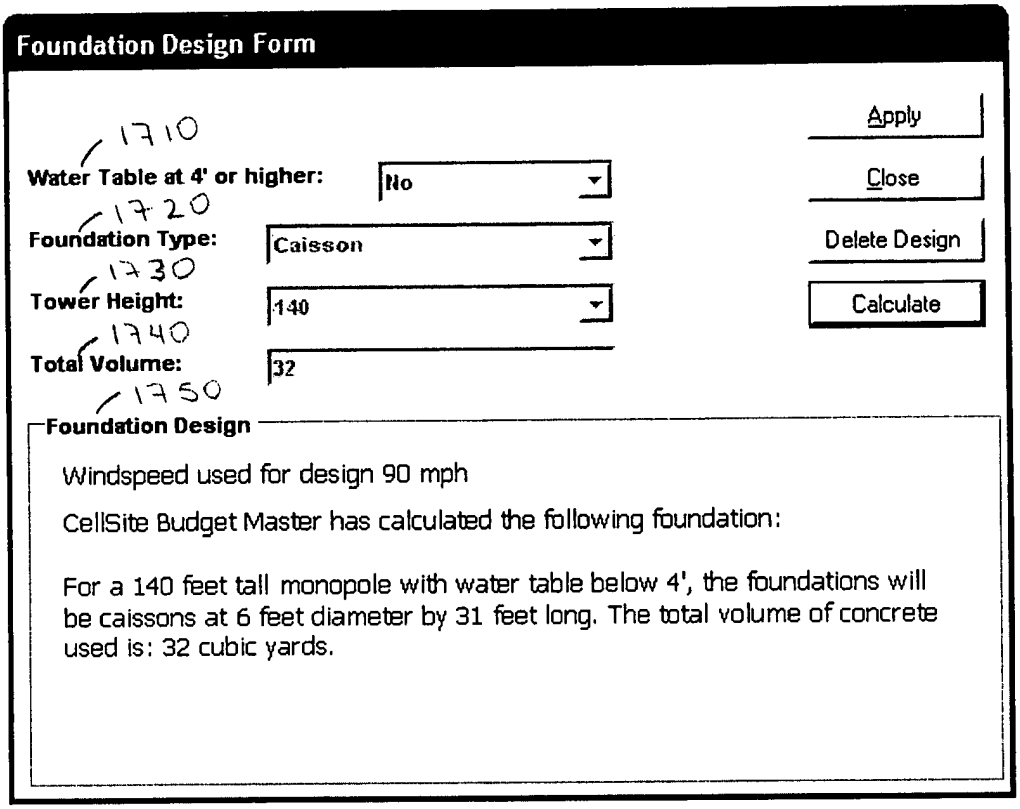

Foundation Section for a Monopole Stack
1610
Foundation Type:
1620
Water Table at 4' or higher:
Apply
Cancel
Design
1630
1600

FIG. 16


Foundation Design Form
1710
Water Table at 4' or higher:
No
1720
Foundation Type:
Caisson
1730
Tower Height:
140
1740
Total Volume:
32
1750
Foundation Design
Windspeed used for design 90 mph
CellSite Budget Master has calculated the following foundation:
For a 140 feet tall monopole with water table below 4', the foundations will be caissons at 6 feet diameter by 31 feet long. The total volume of concrete used is: 32 cubic yards.
Apply
Close
Delete Design
Calculate

1700

FIG. 17

speed	tower type	Water?	fdn type	Height	B1 (ft)	H1 (ft)	L1 (ft)	D1 (ft)	Vol (cy)	B2 (ft)	L2 (ft)	t (ft)	D2 (ft)	Pier (ft)	Vol (cy)	Tot. Vol.
90	GT	wo	PPDM	300	4.50	4.50	18.00	8.00	40.50	6.75	6.75	2.00	4.00	2.00	3.61	44.11
90	GT	wo	PPDM	280	4.25	4.25	17.00	8.00	34.12	6.50	6.50	2.00	4.00	2.00	3.36	37.48
90	GT	wo	PPDM	260	4.00	4.00	16.00	8.00	28.44	6.25	6.25	2.00	4.00	2.00	3.13	31.57
90	GT	wo	PPDM	240	3.75	3.75	15.00	8.00	23.44	5.75	5.75	1.75	4.00	1.75	2.34	25.78
90	GT	wo	PPDM	220	3.25	3.25	13.00	8.00	15.26	5.25	5.25	1.75	4.00	1.75	1.99	17.24
90	GT	wo	PPDM	200	2.75	2.75	11.00	8.00	9.24	4.75	4.75	1.75	4.00	1.75	1.66	10.91
90	GT	wo	PPDM	180	2.50	2.50	10.00	8.00	6.94	4.75	4.75	1.75	4.00	1.75	1.66	8.61

	B1 (ft)			L1 (ft)		B2 (ft)	L2 (ft)		Tot. Vol.
300	3.0			26.0		4.0	20.0		29.7
280	3.0			25.0		4.0	18.0		28.0
260	3.0			24.0		4.0	17.0		26.8
240	3.0			20.0		4.0	13.0		21.8
220	2.5			19.0		3.0	16.0		14.6
200	2.5			17.0		3.0	13.0		12.7
180	2.5			16.0		3.0	11.0		11.6

	B (ft)	L (ft)	Vol (cy)			
200	8.0	38.0	70.7			
180	8.0	34.0	63.3			
160	6.0	35.0	36.7			
140	6.0	31.0	32.5			
120	6.0	27.0	28.3			
100	6.0	23.0	24.1			

	B (ft)	L (ft)	Vol (cy)			
200	8.0	38.0	70.7			
180	8.0	34.0	63.3			
160	6.0	35.0	36.7			
140	6.0	31.0	32.5			
120	6.0	27.0	28.3			
100	6.0	23.0	24.1			

	B (ft)	L (ft)	Vol (cy)			
300	8.0	43.0	80.1			
280	8.0	37.0	68.9			
260	6.0	48.0	50.3			
240	6.0	40.0	41.9			
220	6.0	33.0	34.6			
200	6.0	27.0	28.3			
180	4.0	39.0	18.2			
160	4.0	31.0	14.4			
140	4.0	24.0	11.2			
120	4.0	17.0	7.9			
100	4.0	12.0	5.6			

	B (ft)	L (ft)	Vol (cy)
300	8.0	37.0	68.9
280	8.0	31.0	57.7
260	6.0	43.0	45.0
240	6.0	36.0	37.7

FIG. 18A

90 mph

90	SS	w	CS
90	SS	w	CS
90	SS	w	CS
90	SS	w	CS
90	SS	w	CS
90	SS	w	CS
90	SS	w	CS
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	PP
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT
90	SS	wo	MAT

220	6.0	30.0	31.4
200	6.0	24.0	25.1
180	4.0	37.0	17.2
160	4.0	29.0	13.5
140	4.0	22.0	10.2
120	4.0	16.0	7.4
100	4.0	13.0	6.1

	B (ft)	L (ft)	t (ft)	D (ft)	Pier (ft)	Vol (cy)
300	21.5	21.5	2.5	12.0	3.0	136.3
280	20.0	20.0	2.5	12.0	3.0	119.0
260	18.5	18.5	2.5	12.0	3.0	102.9
240	17.0	17.0	2.5	12.0	3.0	88.1
220	16.0	16.0	2.5	12.0	3.0	79.0
200	15.0	15.0	2.5	12.0	3.0	70.4
180	13.5	13.5	2.5	12.0	3.0	58.5
160	12.0	12.0	2.0	12.0	3.0	40.2
140	10.0	10.0	2.0	12.0	3.0	30.5
120	8.5	8.1	2.0	12.0	3.0	23.5
100	7.0	7.0	2.0	12.0	3.0	19.1

	B (ft)	L (ft)	t (ft)	D (ft)	Pier (ft)	Vol (cy)
300	37.0	37.0	3.0	6.0	4.0	157.00
280	35.0	35.0	3.0	6.0	4.0	141.00
260	34.0	33.0	3.0	6.0	4.0	129.55
240	32.0	31.0	3.0	6.0	4.0	115.11
220	30.0	29.0	3.0	6.0	4.0	101.55
200	28.0	27.0	2.5	6.0	4.0	75.59
180	26.0	25.0	2.5	6.0	3.0	63.33
160	24.0	23.0	2.5	6.0	3.0	54.25
140	21.0	21.0	2.5	6.0	3.0	43.97
120	20.0	18.0	2.0	6.0	3.0	30.20
100	19.0	17.0	2.0	6.0	3.0	27.46

FIG. 18B

90 mph

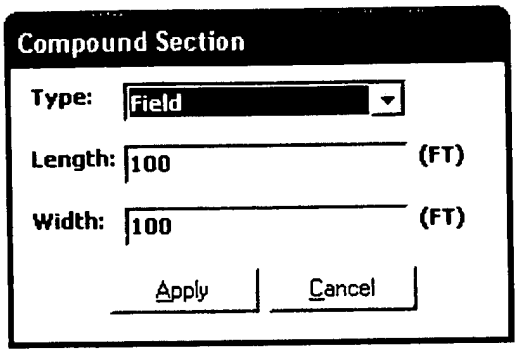

Compound Section
Type:
Field
Length:
100
(FT)
Width:
100
(FT)
Apply
Cancel
1900

FIG. 19

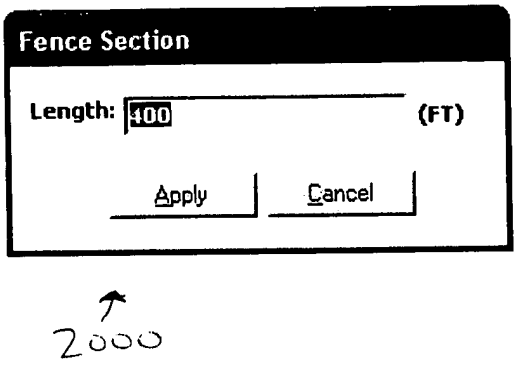


FIG. 20

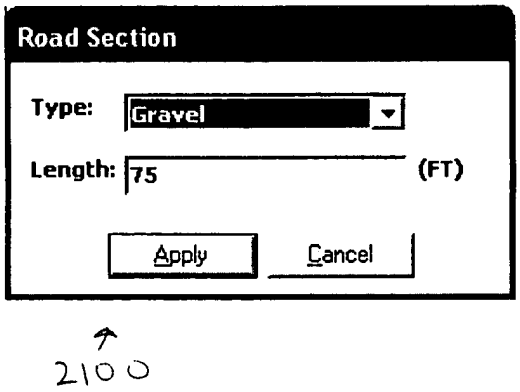
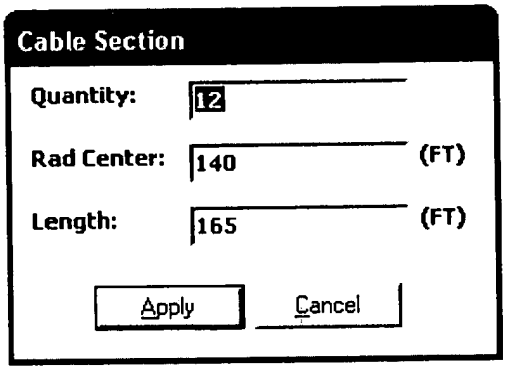
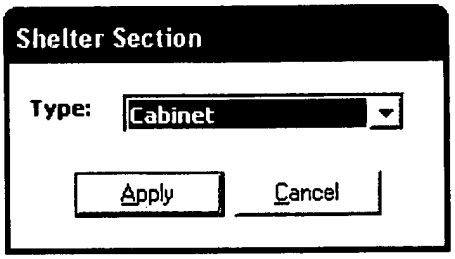


FIG. 21


Cable Section
Quantity:
12
Rad Center:
140
(FT)
Length:
165
(FT)
Apply
Cancel

4
2200

FIG. 22



2300

FIG. 23

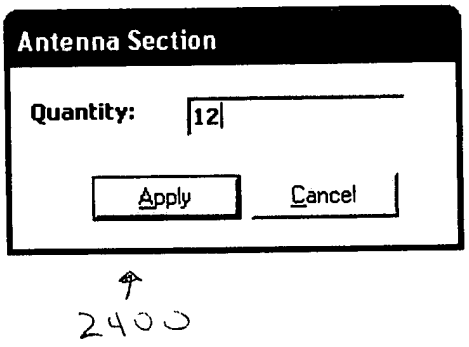


FIG. 24

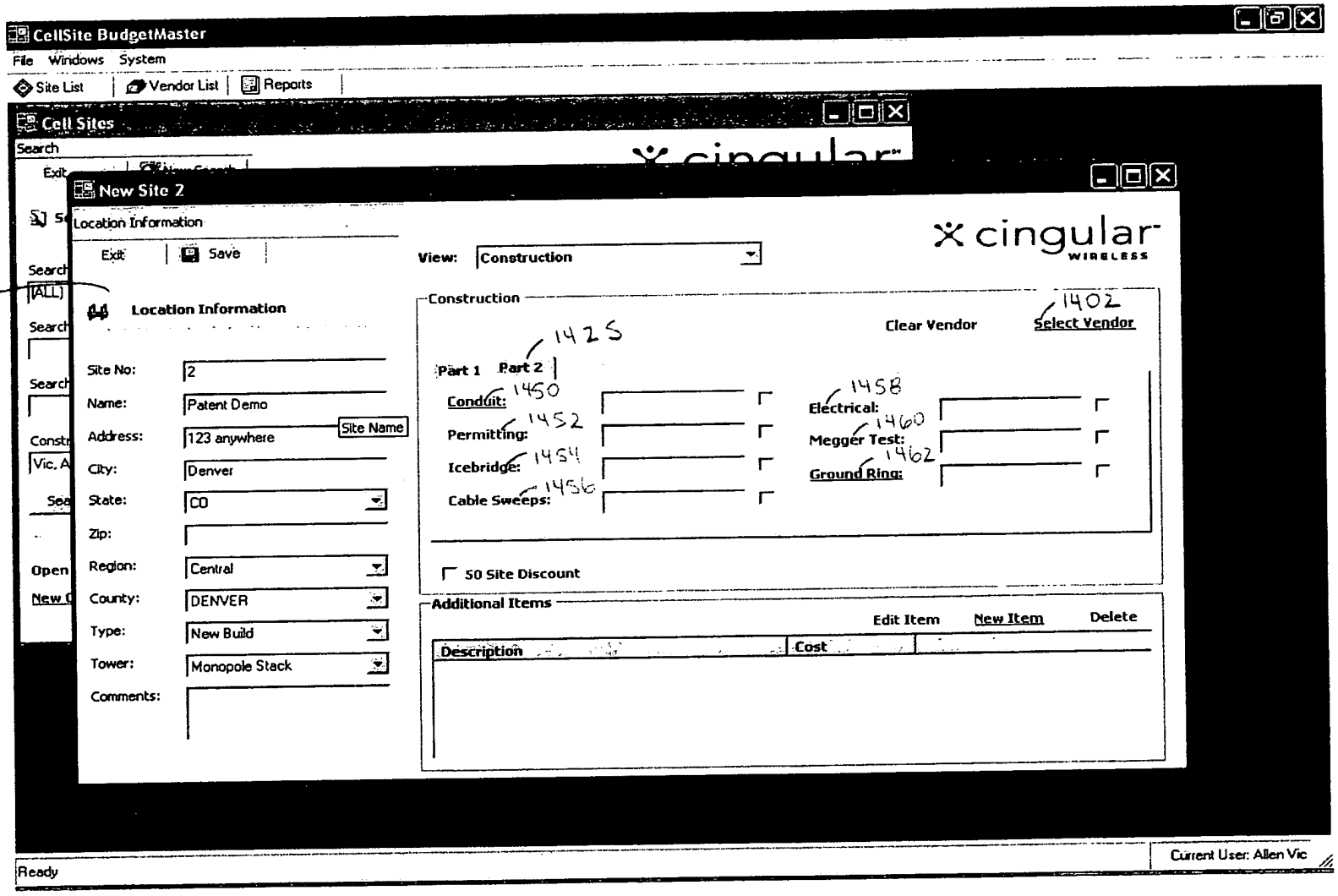

CellSite BudgetMaster
File Windows System
Site List
Vendor List
Reports
Cell Sites
Search
cingular
New Site 2
Location Information
Exit
Save
View: Construction
cingular WIRELESS
805
Location Information
Site No: 2
Name: Patent Demo
Site Name
Address: 123 anywhere
City: Denver
State: CO
Zip:
Region: Central
County: DENVER
Type: New Build
Tower: Monopole Stack
Comments:
Construction
1425
Clear Vendor
1402
Select Vendor
Part 1
Part 2
Conduit: 1450
Permitting: 1452
Icebridge: 1454
Cable Sweeps: 1456
Electrical: 1458
Megger Test: 1460
Ground Ring: 1462
50 Site Discount
Additional Items
Edit Item
New Item
Delete
Description
Cost
Ready
Current User: Allen Vic
2500

FIG. 25

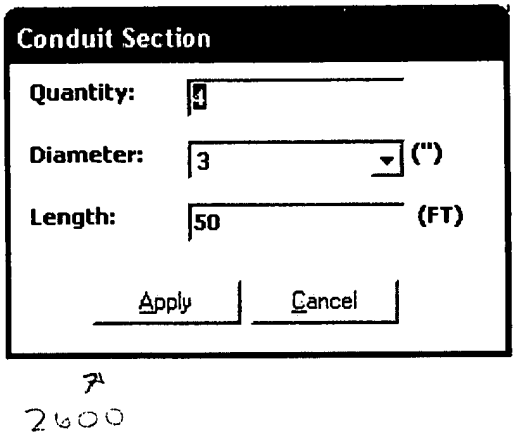

Conduit Section
Quantity:
4
Diameter:
3
(")
Length:
50
(FT)
Apply
Cancel
2600

FIG. 26

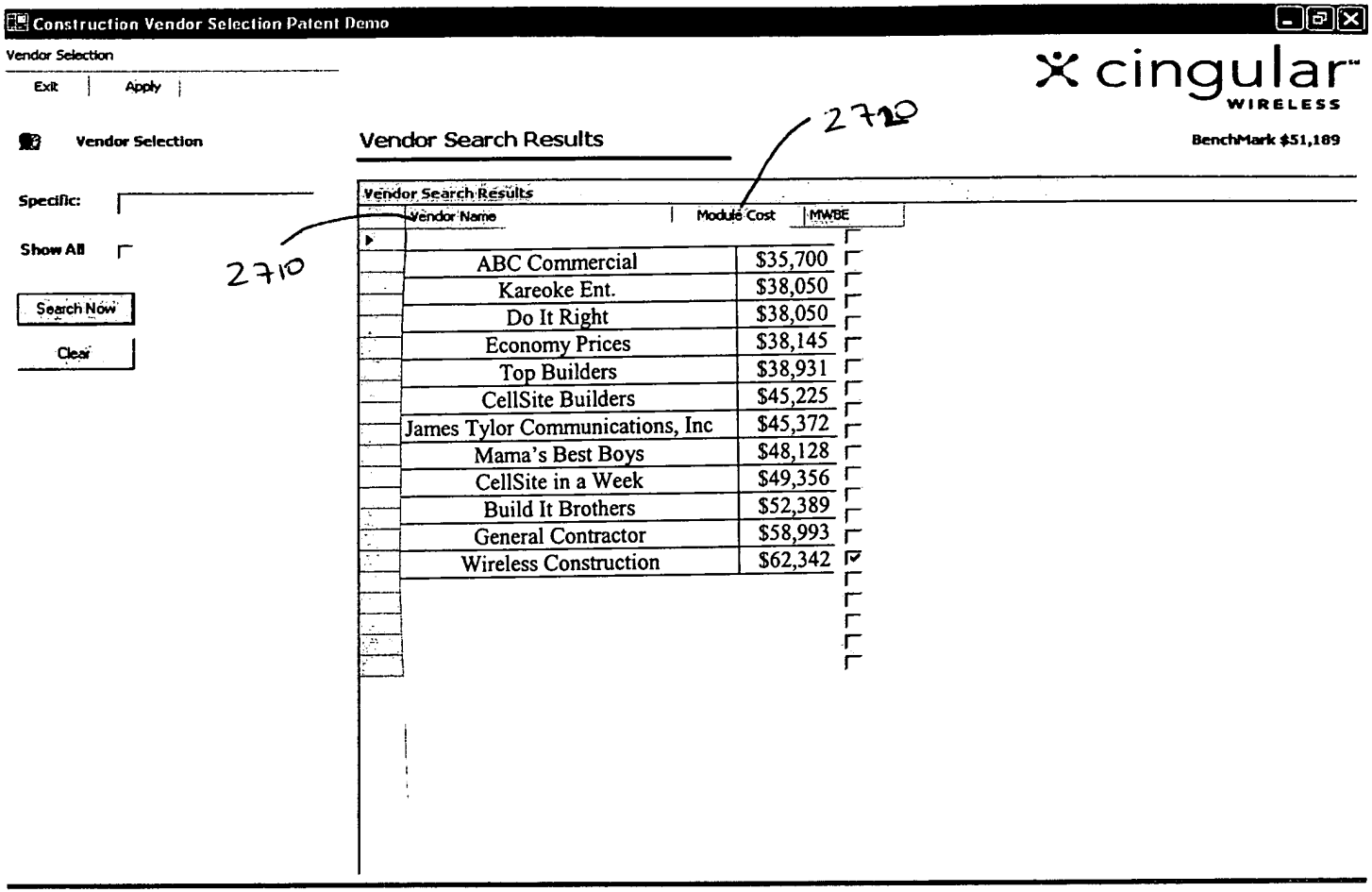

Construction Vendor Selection Patent Demo
Vendor Selection
Exit
Apply
cingular
WIRELESS
Vendor Selection
Vendor Search Results
BenchMark $51,189
2720
Specific:
Show All
2710
Search Now
Clear
Vendor Search Results
Vendor Name
Module Cost
MWBE
ABC Commercial $35,700
Kareoke Ent. $38,050
Do It Right $38,050
Economy Prices $38,145
Top Builders $38,931
CellSite Builders $45,225
James Tylor Communications, Inc $45,372
Mama's Best Boys $48,128
CellSite in a Week $49,356
Build It Brothers $52,389
General Contractor $58,993
Wireless Construction $62,342
2700

FIG. 27

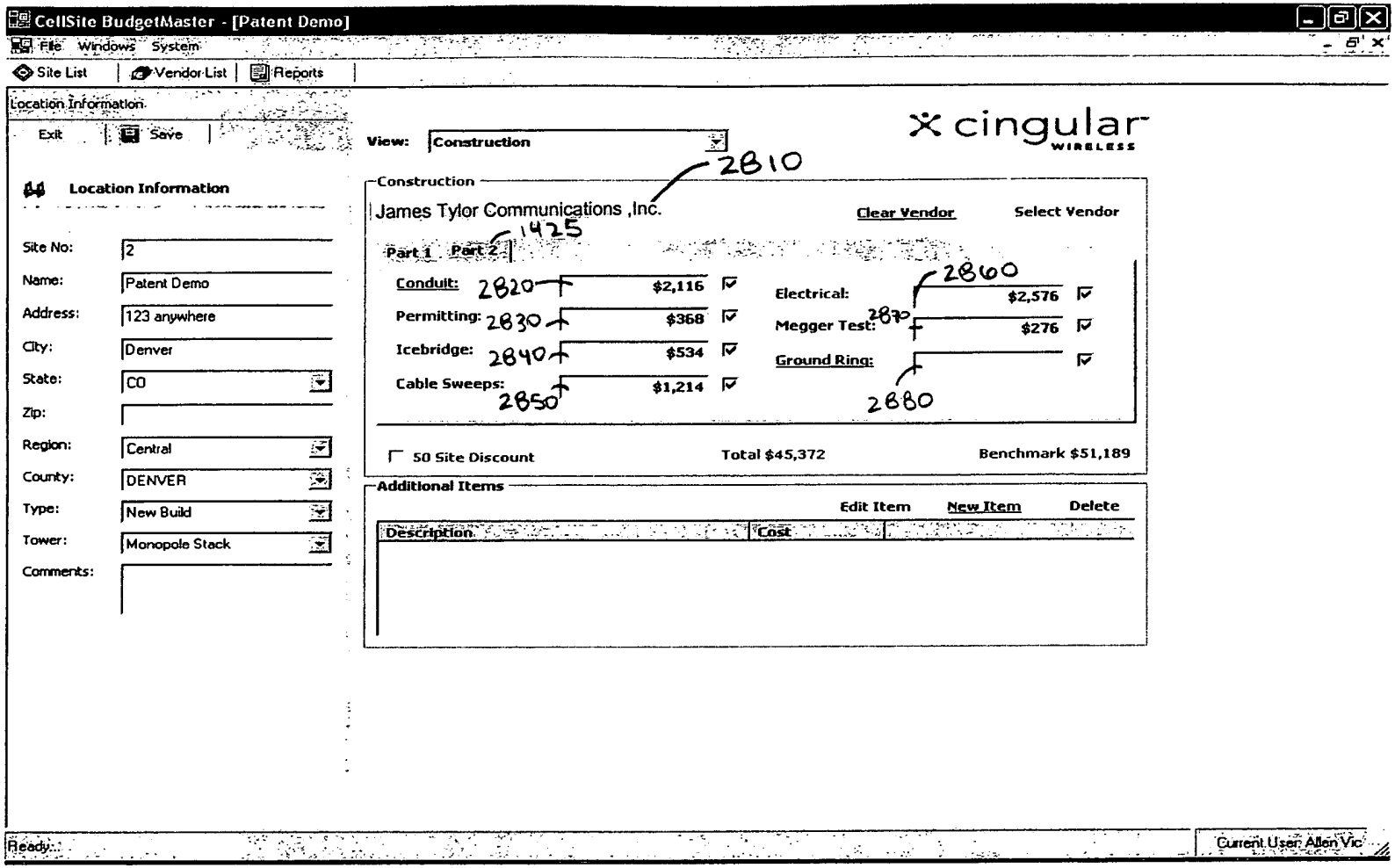

CellSite BudgetMaster - [Patent Demo]
File Windows System
Site List
Vendor List
Reports
Location Information
Exit
Save
Location Information
Site No: 2
Name: Patent Demo
Address: 123 anywhere
City: Denver
State: CO
Zip:
Region: Central
County: DENVER
Type: New Build
Tower: Monopole Stack
Comments:
View: Construction
cingular WIRELESS
2810
Construction
James Tylor Communications ,Inc.
Clear Vendor
Select Vendor
1425
Part 1 Part 2
Conduit: $2,116
Permitting: $368
Icebridge: $534
Cable Sweeps: $1,214
2820
2830
2840
2850
Electrical: $2,576
Megger Test: $276
Ground Ring:
2860
2870
2880
50 Site Discount
Total $45,372
Benchmark $51,189
Additional Items
Edit Item
New Item
Delete
Description
Cost
Ready...
Current User: Allen Vic

FIG. 28

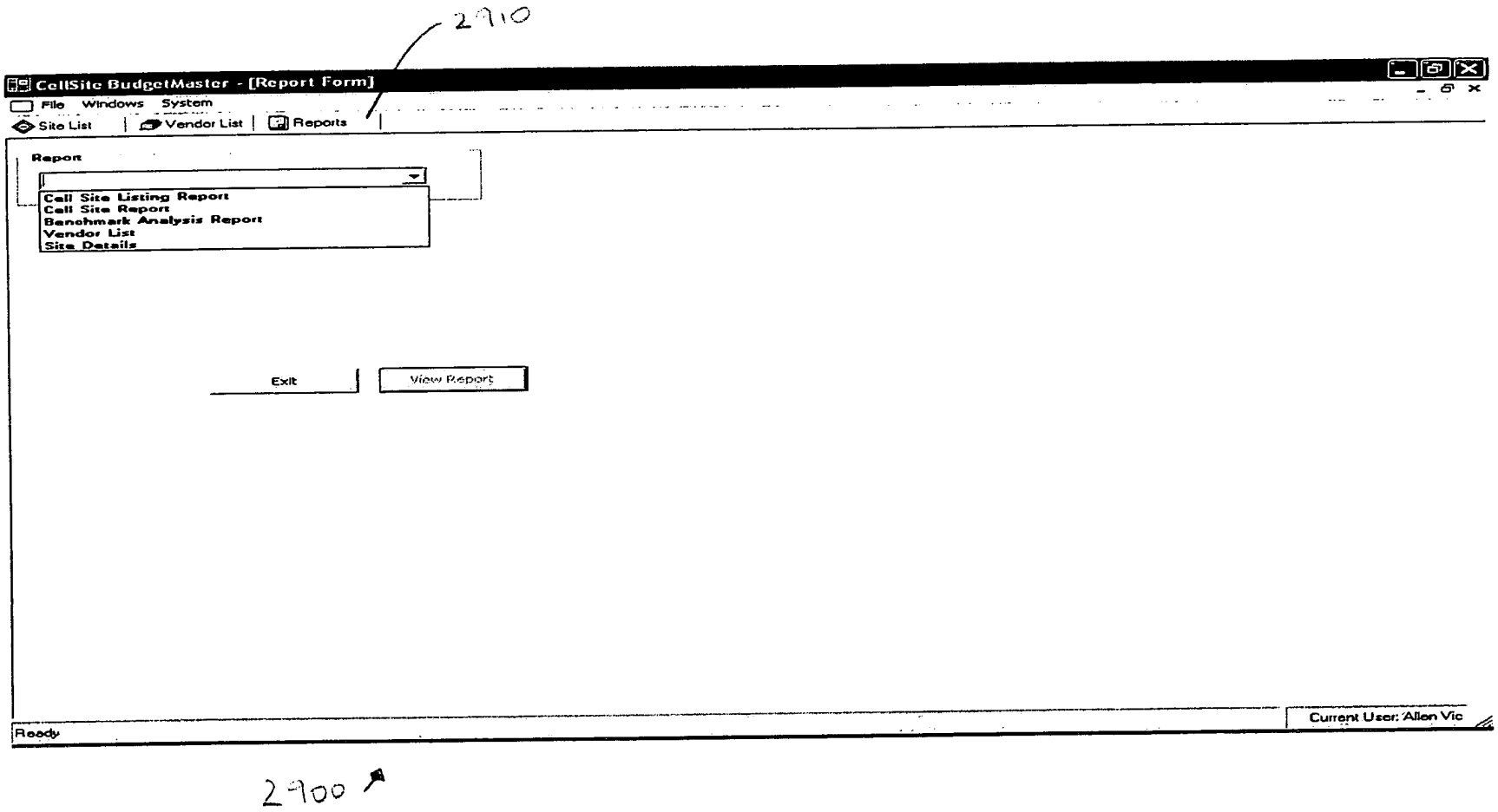

2910
CellSite BudgetMaster - [Report Form]
File Windows System
Site List
Vendor List
Reports
Report
Cell Site Listing Report
Cell Site Report
Benchmark Analysis Report
Vendor List
Site Details
Exit
View Report
Ready
Current User: Allen Vic
2900

FIG. 29

CellSite BudgetMaster

Cell Site Listing Report

10/9/2003 4:51:39 PM

Region: Central

Construction Manager: (ALL)

Construction Manager	Region	Site Name	Site Number	Site Address	Tower Type	NewBuild Colo	Total Cost	Benchmark
Allen Vic	Central	monopole-model	9110	lee street , GA	Monopole Stack	Colo	$59,555.00	$47,195.00
Doug Pelletier	Central	Baldwin	5451	W. Church St./Sandy Baldwin, IL	Guyed Tower Stack	New Build	$8,250.00	$8,252.00
Doug Pelletier	Central	Pittsburg	5901	302 S. Smelter Pittsburg, KS 66752	Self-Support Stack	Colo	$26,703.00	$28,674.00
Jd Jones	Central	BTA Carve site acq. Multiple sites	999999	Central and East Texas Waco, Temple, Longview , TX	Monopole Stack	Colo	$8,738.00	$9,120.00
Jd Jones	Central	Grapevine Mills	3981	3428 Anderson Gibson RD Grapevine, TX 75423	Monopole Stack	Colo	$7,500.00	$9,175.00
Jd Jones	Central	Hwy 120/Magnolia	4167	308B Bryan ST Pottsboro, TX 75076	Monopole Stack	Colo	$6,785.50	$9,643.00
Doug Pelletier	Central	Evansville	5453	Evansville, IL	Guyed Tower Stack	New Build	$8,250.00	$8,252.00
Doug Pelletier	Central	Chester	5400	Chester, IL	Self-Support Stack	Colo	$53,089.75	$43,381.00
Doug Pelletier	Central	McBride	4359	McBride, MO	Self-Support Stack	New Build	$101,150.00	$100,559.00
Doug Pelletier	Central	Kimberling City	5854	Northwoods Ln./State Rd. 13 Kimberling City, MO	Guyed Tower Stack	New Build	$8,250.00	$8,252.00
Allen Vic	Central	Statesboro	410-050	, GA	Guyed Tower Stack	Colo		
Allen Vic	Central	Downtown Augusta	026-015	, GA	Monopole Stack	Colo		
Allen Vic	Central	Walton Way	026-014	, GA	Monopole Stack	Colo		
Allen Vic	Central	Daniel Field	026-001	Augusta, GA	Monopole Stack	Colo		

3000A

FIG. 30A

CellSite BudgetMaster

Cell Site Listing Report
10/9/2003 4:51:39 PM

Region: Central
Construction Manager: (ALL)

Construction Manager	Region	Site Name	Site Number	Site Address	Tower Type	NewBuild Colo	Total Cost	Benchmark
Doug Pelletier	Central	Lawrence Memorial	4883	1114 West 6th Street Lawrence, KS 66044	Monopole Stack	New Build	$78,779.37	$46,534.00
Doug Pelletier	Central	Bill's Test Site	123	St. Louis, MO	Monopole Stack	Colo	$23,802.50	$24,119.00
Lee Ann Fager	Central	Faulkner Lake	9217	, AR	Monopole Stack	Colo	$38,300.50	$36,585.00
Lee Ann Fager	Central	Holland/Enola	9223	, AR	Guyed Tower Stack	Colo	$5,500.00	$8,240.00
Lee Ann Fager	Central	Nash	3517	Enid, OK	Guyed Tower Stack	Colo	$26,637.50	$42,731.00
Lee Ann Fager	Central	Ashley	3521	Ashley, OK	Guyed Tower Stack	Colo	$89,568.05	$42,731.00
Doug Pelletier	Central	DP Test2	4231	St. Louis, MO 63131	Monopole Stack	Colo	$22,925.00	$24,959.00
Doug Pelletier	Central	Rick's Test Site	1212	St. Louis, MO	Monopole Stack	New Build	$1,000.00	$70,440.00
Lee Ann Fager	Central	Jet	3518	Jet, OK	Guyed Tower Stack	Colo	$25,587.50	$41,440.00
Lee Ann Fager	Central	Lambert	3519	Lambert, OK	Guyed Tower Stack	Colo	$0.00	$42,731.00
Lee Ann Fager	Central	Indian Creek	2875	Wynne, AR	Monopole Stack	Colo	$47,649.50	$43,168.00
Lee Ann Fager	Central	talihina	8644	talihina, OK	Guyed Tower Stack	Colo	$0.00	$0.00
Allen Vic	Central	87788	444	, TX	Self-Support Stack	New Build	$39,678.07	$33,313.00
Doug Pelletier	Central	Jerseyville DT	5450	Jerseyville, IL	Self-Support Stack	Colo	$54,899.75	$45,719.00
Lee Ann Fager	Central	Aline	3527	Aline, OK	Guyed Tower Stack	Colo	$26,637.50	$42,731.00

3000B

FIG. 30B

CellSite BudgetMaster

Cell Site Listing Report

10/9/2003 4:51:40 PM

Region: Central

Construction Manager: (ALL)

Construction Manager	Region	Site Name	Site Number	Site Address	Tower Type	NewBuild Colo	Total Cost	Benchmark
Lowell Jones	Central	Leslie	2267	Leslie, AR	Guyed Tower Stack	Colo	$26,499.50	$26,540.00
Lee Ann Fager	Central	New Site 1	2267	, AR	Guyed Tower Stack	Colo	$26,215.88	$26,540.00
Allen Vic	Central	New Site 1	222	, AR	Monopole Stack	New Build	$68,550.00	$85,377.00
Lee Ann Fager	Central	New	3879	, AR	Monopole Stack	Colo	$19,150.00	$85,377.00
Lee Ann Fager	Central	Creath	2683	, AR	Guyed Tower Stack	Colo	$1,300.00	$1,442.00
Doug Pelletier	Central	US65/Chestnut	53305786	Springfield, MO	Guyed Tower Stack	Colo	$1,000.00	$1,442.00
Doug Pelletier	Central	Riverdale	53305760	Riverdale, MO	Guyed Tower Stack	New Build	$8,250.00	$8,252.00
Doug Pelletier	Central	Spokane	53305761	Spokane, MO	Guyed Tower Stack	New Build	$8,250.00	$8,252.00
Lee Ann Fager	Central	Sunburst	7405	, OK	Monopole Stack	Colo	$14,200.00	$17,850.00
Doug Pelletier	Central	dp test 5	12348	st louis, MO	Monopole Stack	New Build	$79,513.50	$100,341.00
Doug Pelletier	Central	dp test 6	12349	st louis, MO	Self-Support Stack	New Build	$93,441.25	$123,416.00
Doug Pelletier	Central	dp test 7	12350	st louis, MO	Guyed Tower Stack	New Build	$125,912.50	$137,070.00
Doug Pelletier	Central	Lick Creek	98186224	Lick Creek, IL	Self-Support Stack	Colo	$2,000.00	$2,146.00
Lee Ann Fager	Central	Union Pacific	7405	Muskogee, OK	Self-Support Stack	Colo	$33,722.77	$38,831.00
Doug Pelletier	Central	Structural Analysis - Dummy Site	4321	St. Louis, MO 63131	Self-Support Stack	Colo	$1,100.00	$1,566.00

3000C

FIG. 30C

CellSite BudgetMaster

Cell Site Report

10/9/2003 4:53:49 PM

Construction Manager:	**Allen Vic**				
Site Name:	**Patent Demo**	**Site Number:**	**3**	**Site Address:**	**123 anywhere, Atlanta, GA**
Region:	**Southeast**	**County:**	**BAKER**		
NewBuild/COLO:	**New Build**	**Tower Type:**	**Self-Support Stack**	**Tower Height:**	**200**

Module	Vendor	Phone	Address	Discount	Vendor Cost	Benchmark
Geotechnical	ACME Geo Services	281-807-1441	17314 Sh 249, Suite 230, Charlotte, NC		$4,300	$4,876
Construction	BuildRight Contractors	770-888-3264	1479 Ventura Drive, Miami, Fl		$54,719	$63,468
					$59,019	**$68,344**

3100

FIG. 31

CellSite BudgetMaster

Benchmark Analysis

10/9/2003 4:40:51 PM

Construction Manager:	**Allen Vic**				
Site Name:	**Patent Demo**	**Site Number:**	**3**	**Site Address:**	**123 anywhere, Atlanta, GA**
Region:	**Southeast**	**County:**	**BAKER**		
NewBuild/COLO:	**New Build**	**Tower Type:**	**Self-Support Stack**	**Tower Height:**	**200**

*** Selected Vendor (SV)**

Construction Module - Benchmark Vendors

Benchmark $63,468

MBWE	Vendor Name	Phone	Address	Module Cost
	ABC Contractors	724-885-1313	123 Any Road, New Bury, PA 16101	$46,514.00
	DEF , Inc	330-532-0000	456 Any Road Lima, Oh 44452	$46,684.00
	GHI, Inc	210-302-7765	789 Any Lane New Braunfels, TX 78131	$49,175.00
	JKL, Inc	(409) 772-2222	P.O. Box 123 Lumberton, Te 77657	$49,365.00
	MNO, Inc.	(888) 899-3331	342 Any Circle, FL 33403	$53,010.00
	PQR, Inc.	305-666-6666	766 Any Drive Miami, Fl 33155	$53,010.00
*SV	Economy Contractors	770-888-4444	321 Any Street Cumming, GA 30040	$54,719.00

3200

FIG. 32

CellSite BudgetMaster

Vendor List

10/9/2003 4:55:41 PM

Region: **West Coast**

Module: **Site Acquisition**

Site Acquisition Module

Region		Vendor Name	Address
Westcoast		A. Owens & Associates, Llc	3024 Montego Place
Westcoast		Ac&S Engineering And Surveying, Inc.	215 Whitsett Street
Westcoast		Advanced Wireless Solutions, Inc.	321 Old Gray Station Road, Suite 3
Westcoast	F	Alcoa Wireless Services, Inc. Dba Afl Wireless Ser	1455 Frazee Road, Suite 805
Westcoast		Allied Construction, Inc.	Po Box 700835.
Westcoast		American Tower Corp.	520 Butternut Dr, Suite 8
Westcoast		Applied Network Engineering	419 Fieldstone Drive
Westcoast		Arcadis Communications Const., Llc	630 Plaza Drive - Suite 200
Westcoast		Archcomm, Inc.	1840 Lockhill-Selma Rd. #101
Westcoast		Auburn Land & Energy Inc.	4600 S. Garfield Road, Suite 300
Westcoast		B & C Contracting Co.	4605 S. Orange Blossom Trail
Westcoast	T	B-C Walker Inc.	7311 Kelly Ln
Westcoast		Banton Construction Company, Inc.	339 Washington Avenue
Westcoast		Baran Telecom	2355 Industrial Park Blvd.
Westcoast		Bechtel / Wfi Corporation	5295 Westview Drive
Westcoast		Berliner Communications, Inc.	97 Linden Ave.
Westcoast		Bf Cellular Consulting, Llc	724 Stonesign Drive
Westcoast		Black & Veatch Corporation	5119 Pineridge Drive
Westcoast		Brookstone Telecom	27450 Ynez Road Suite 300
Westcoast		Butler Telecom, Inc.	9212 West Royal Lane

FIG. 33

3300

CellSite BudgetMaster

Site Details

10/9/2003 4:57:32 PM

Construction Manager: Allen Vic

Site Name: Patent Demo

Site Number: 3

Address: 123 anywhere, Atlanta, GA 30075

Module	Vendor	Description	Cost
Geotechnical	BuildRight Geo Services	NEPA	$500
Geotechnical	BuildRight Geo Services	SHPO	$500
Geotechnical	BuildRight Geo Services	Phase I Study	$1,600
Geotechnical	BuildRight Geo Services	Soil Analysis	$1,700
Construction	SkyHigh Contractors	Foundation	$12,040
Construction	SkyHigh Contractors	Tower	$18,400
Construction	SkyHigh Contractors	Megger Test	$450
Construction	SkyHigh Contractors	Permitting	$515
Construction	SkyHigh Contractors	Electrical	$600
Construction	SkyHigh Contractors	Road	$774
Construction	SkyHigh Contractors	IceBridge	$850
Construction	SkyHigh Contractors	Shelter	$940
Construction	SkyHigh Contractors	Antenna	$2,400
Construction	SkyHigh Contractors	Conduit	$2,400
Construction	SkyHigh Contractors	Antenna Sweep	$2,400
Construction	SkyHigh Contractors	Compound	$3,500
Construction	SkyHigh Contractors	Cable	$9,450

FIG. 34

3400

Construction Services Matrix

CONSTRUCTION / CONSTRUCTION RELATED SERVICES

Vendor Name:	Type Name Here
Address:	Type Street Address Here
	Type City, State and Zip Here
Contact Name:	Type Contact Here
Tel. No 1:	Type Primary Phone # Here
Tel. No 2:	Type Backup Phone # Here

If Not Applicable, please e-mail this sheet to Cingular with just your contact information.

		Regions								
Activity Category	Activity Description	SouthEast	Great Lakes	NorthEast	West Coast	Central	Gulf Coast	In House / Farmed Out	Discount (> 50 Sites) %'s	Vendor Comments
Geotechnical / Environmental Module	Phase I Study - Ref SOW 2.3									
	Phase II Study - Ref SOW 2.4									
	Soil Analysis - Ref SOW 2.8									
	NEPA checklist - Ref SOW 2.1									
	SHPO study - Ref SOW 2.1									
	ASTM - Ref SOW 2.2									
	Arch Cultural Survey - SOW 2.5									
	Architectural Survey - SOW 2.6									
	Envir. Assess (EA) - SOW 2.7									
Bundle Deal	NEPA / ASTM / Phase I / SHPO Ref SOW 2.1 thru 2.3									
Construction Management Module	**Total Construction Mgmt. Bid Package, Awards, Materials Mgmt, Inspections / Walk Through / Assemblage of Completion Packages, Project Coordination / etc...Ref SOW 4.1 thru 4.6	15000.00								
Architecture & Engineering Work Module	Issued For Construction* - Ref SOW 3.2 / 3.4									
Design Drawings	COLOCATION									
	NEWBUILD - GUYED / SS -									
	NEWBUILD - MONOPOLE									
	Issued For Permitting Only* Ref SOW 3.2 / 3.3									
	CO-LOCATION									
	NEWBUILD - GUYED / SS									
	NEWBUILD - MONOPOLE									
	2C Survey - Ref SOW 3.1									
	1A Survey - Ref SOW 3.1									
	"As-Built" Drawings (from redlines) - Ref SOW 3.5									
Structural Analysis Module	Structural Analysis - Ref SOW 3.6									
Site Acquisition / Real Estate Module	Zoning - Administrative Only - Ref SOW 1.3.1									
	Zoning With Hearings-SOW 1.3.2									
	Leasing / Negotiation - SOW 1.2									
	Candidate search - SOW 1.1									

Discount Applied if All 6 Modules Are Awarded (in %s)	
Program Management Fee to be Applied if Awarded All 6 Modules	

* includes grounding, electrical and survey drawings
** includes SHPO, FAA, FCC, permits, DOT, etc...

FIG. 35

Constructi n Matrix

CONSTRUCTION / CONSTRUCTION RELATED SERVICES

Vendor Name:	Type Name Here
Address:	Type City, State and Zip Here
	Type City, State and Zip Here
Contact Name:	Type Contact Here
Tel. No 1:	Type Primary Phone # Here
Tel. No 2:	Type Backup Phone # Here

If Not Applicable. please e-mail this sheet to Cingular with just your contact information.

Activity Category	Units of Measure	Regions						In House / Farmed Out	Discount (> 50 Sites) %'s	Vendor Comments
		SouthEast	Great Lakes	NorthEast	West Coast	Central	Gulf Coast			
Construction Module										
Road Construction : gravel (12' wide)	per linear foot - Ref SOW 5.2.1									
Road Construction : paved (12' wide)	per linear foot - Ref SOW 5.2.2									
Mobilization	incl in other costs - Ref SOW 5.3									
Clearing : heavily wooded	per square foot - Ref SOW 5.4.1									
Clearing : field	per square foot - Ref SOW 5.4.2									
Permitting	Lump Sum - Ref SOW 5.1									
6' Caisson Drilling (WT at 4' or higher)	per linear foot - Ref SOW 5.5.1									
8' Caisson Drilling (WT at 4' or higher)	per linear foot - Ref SOW 5.5.1									
10' Caisson Drilling (WT at 4' or higher)	per linear foot - Ref SOW 5.5.1									
4' Caisson Drilling (WT at 4' or higher)	per linear foot - Ref SOW 5.5.1									
6' Caisson Drilling (WT below fdn)	per linear foot - Ref SOW 5.5.2									
8' Caisson Drilling (WT below fdn)	per linear foot - Ref SOW 5.5.2									
10' Caisson Drilling (WT below fdn)	per linear foot - Ref SOW 5.5.2									
4' Caisson Drilling (WT below fdn)	per linear foot - Ref SOW 5.5.2									
General Concrete Pour (WT below fdn)	per cubic yard - Ref SOW 5.6.1									
General Concrete Pour (WT above fdn)	per cubic yard - Ref SOW 5.6.2									
Icebridge Supply / Install	per 10' length - Ref SOW 5.16									
Monopole Stack	per linear foot - Ref SOW 5.7									
Self-Support Stack	per linear foot - Ref SOW 5.8									
Guyed Tower Stack	per linear foot - Ref SOW 5.9									
Ground Ring for Shelter Sites	lump sum - Ref SOW 5.10									
Ground Ring for Cabinet Sites	lump sum - Ref SOW 5.10									
Cabinet Set (Include ancillary box)	lump sum - Ref SOW 5.11									
Shelter Set - assume 12' x 24' ; 50000 lbs)	lump sum - Ref SOW 5.12									
Electrical hook-up (by Certified electrician)	lump sum - Ref SOW 5.11 / 5.12									
Fence Install	per linear foot - Ref SOW 5.14									
Megger Test	lump sum - Ref SOW 5.15									
Antenna Install	per antenna - Ref SOW 5.16									
Cable Install	per cable/per linear foot - SOW 5.16									
Cable Sweeps	per cable - Ref SOW 5.17									
2" Diameter Conduit Run	per linear foot - Ref SOW 5.13									
2 1/2" Diameter Conduit Run	per linear foot - Ref SOW 5.13									
3" Diameter Conduit Run	per linear foot - Ref SOW 5.13									
4" Diameter Conduit Run	per linear foot - Ref SOW 5.13									

All prices include 50 miles of freight of materials

FIG. 36

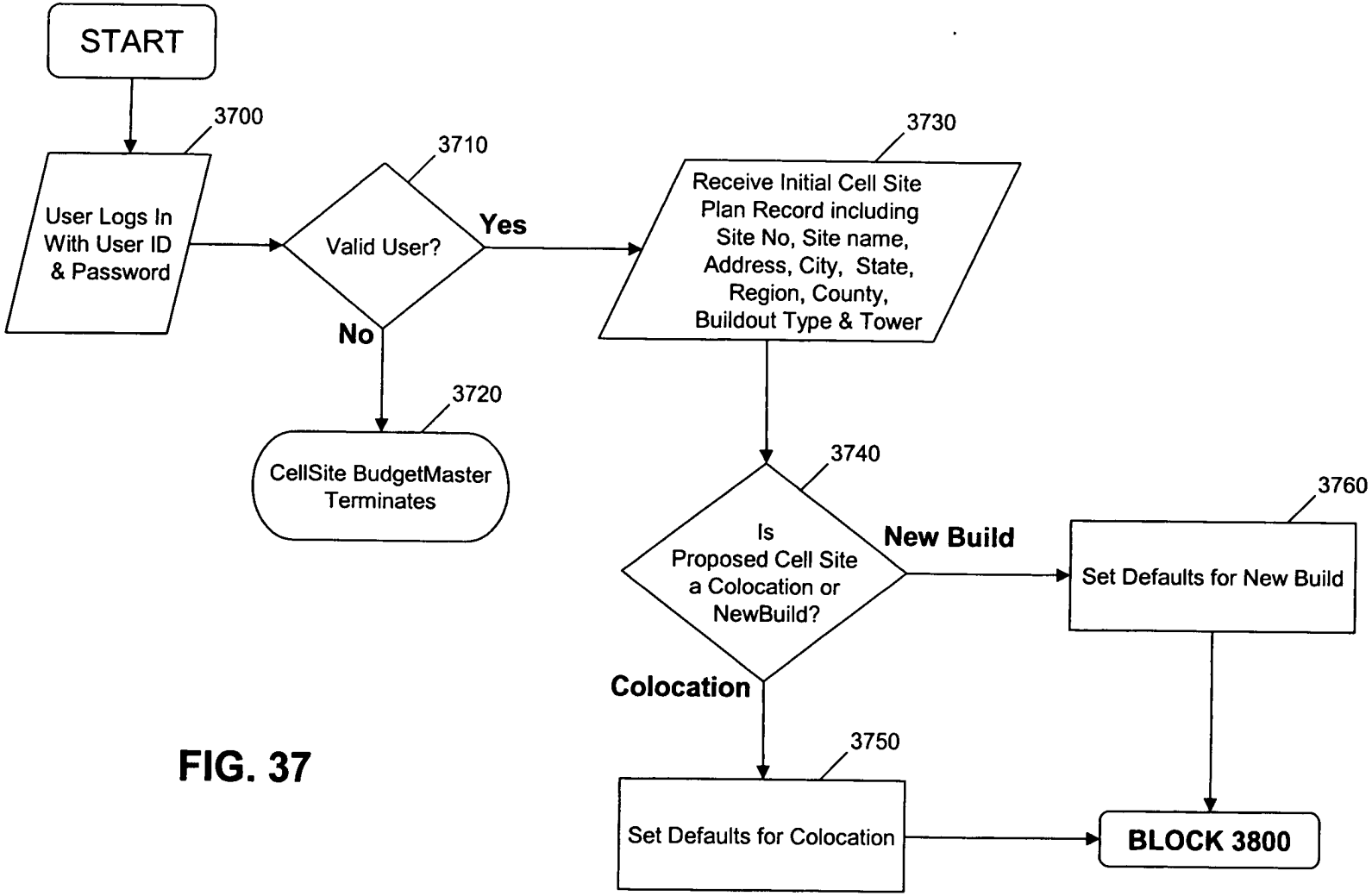

START
3700
User Logs In With User ID & Password
3710
Valid User?
Yes
No
3720
CellSite BudgetMaster Terminates
3730
Receive Initial Cell Site Plan Record including Site No, Site name, Address, City, State, Region, County, Buildout Type & Tower
3740
Is Proposed Cell Site a Colocation or NewBuild?
New Build
3760
Set Defaults for New Build
Colocation
3750
Set Defaults for Colocation
BLOCK 3800

FIG. 37

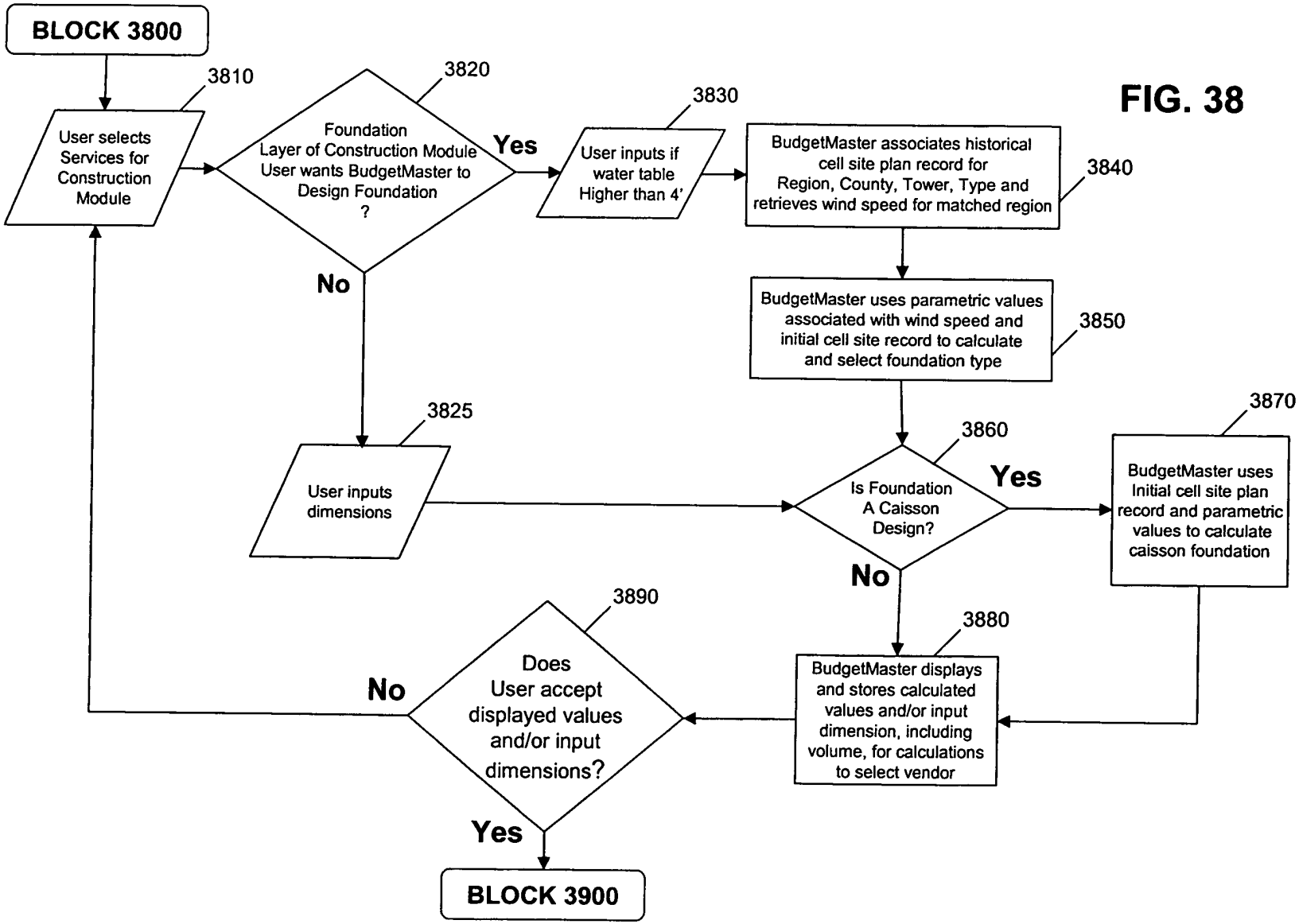

BLOCK 3800
3810
User selects Services for Construction Module
3820
Foundation Layer of Construction Module User wants BudgetMaster to Design Foundation ?
Yes
No
3830
User inputs if water table Higher than 4'
BudgetMaster associates historical cell site plan record for Region, County, Tower, Type and retrieves wind speed for matched region
3840
BudgetMaster uses parametric values associated with wind speed and initial cell site record to calculate and select foundation type
3850
3825
User inputs dimensions
3860
Is Foundation A Caisson Design?
Yes
No
3870
BudgetMaster uses Initial cell site plan record and parametric values to calculate caisson foundation
3880
BudgetMaster displays and stores calculated values and/or input dimension, including volume, for calculations to select vendor
3890
Does User accept displayed values and/or input dimensions?
No
Yes
BLOCK 3900

FIG. 38

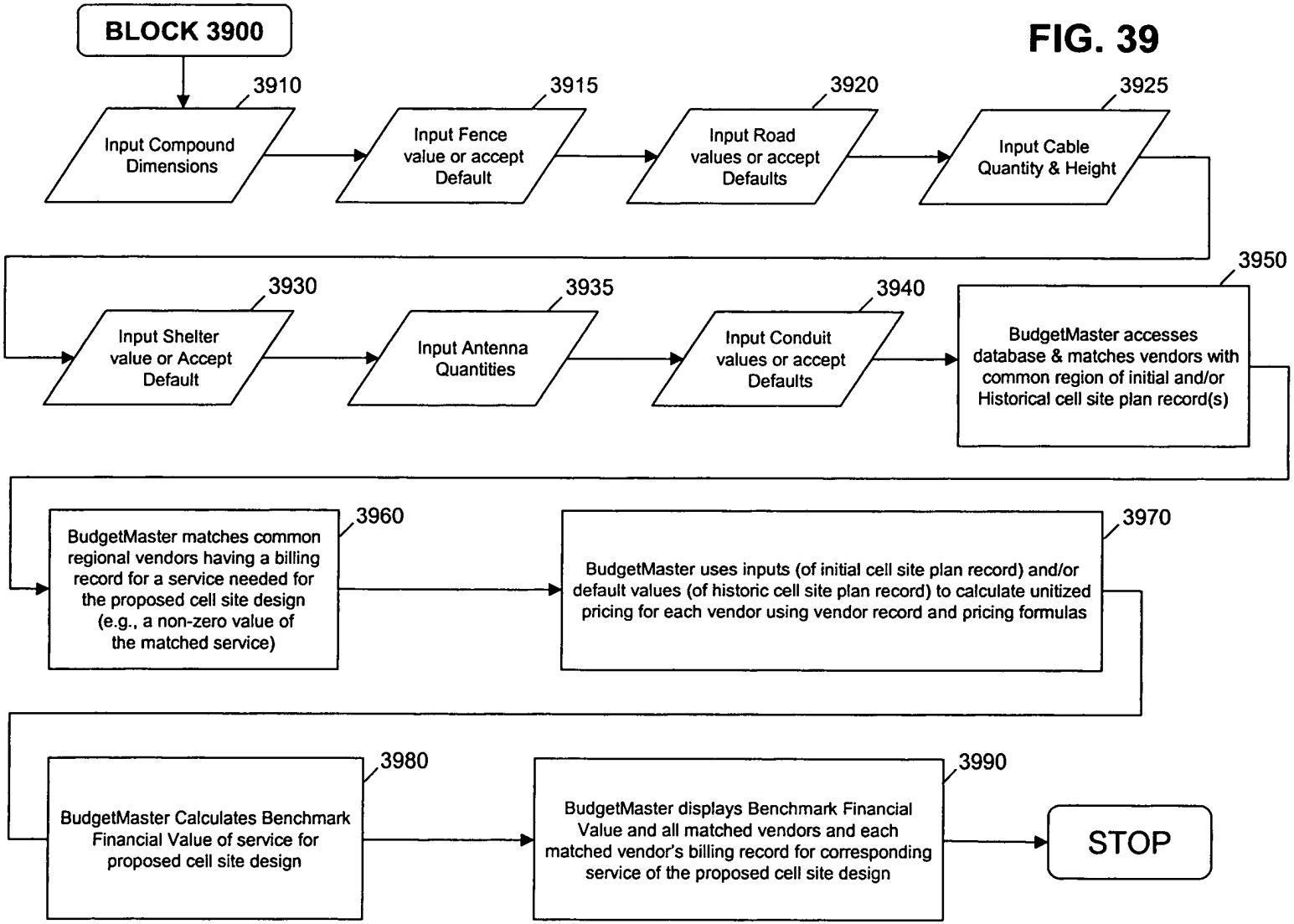
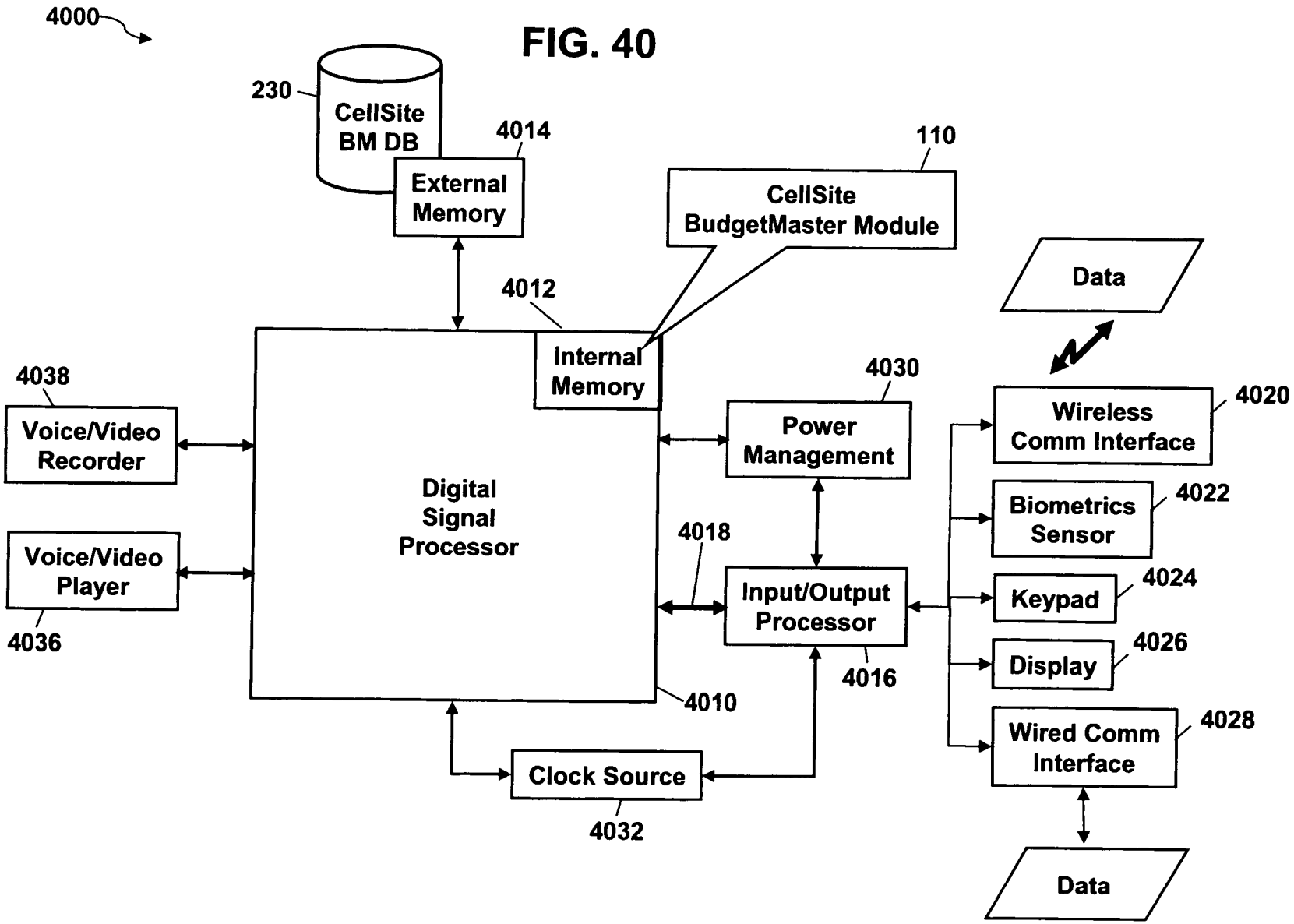

BLOCK 3900
3910
Input Compound Dimensions
3915
Input Fence value or accept Default
3920
Input Road values or accept Defaults
3925
Input Cable Quantity & Height
3930
Input Shelter value or Accept Default
3935
Input Antenna Quantities
3940
Input Conduit values or accept Defaults
3950
BudgetMaster accesses database & matches vendors with common region of initial and/or Historical cell site plan record(s)
3960
BudgetMaster matches common regional vendors having a billing record for a service needed for the proposed cell site design (e.g., a non-zero value of the matched service)
3970
BudgetMaster uses inputs (of initial cell site plan record) and/or default values (of historic cell site plan record) to calculate unitized pricing for each vendor using vendor record and pricing formulas
3980
BudgetMaster Calculates Benchmark Financial Value of service for proposed cell site design
3990
BudgetMaster displays Benchmark Financial Value and all matched vendors and each matched vendor's billing record for corresponding service of the proposed cell site design
STOP

FIG. 39

FIG. 40


4000
230
CellSite
BM DB
4014
External
Memory
110
CellSite
BudgetMaster Module
4012
Internal
Memory
Data
4038
Voice/Video
Recorder
4030
Power
Management
4020
Wireless
Comm Interface
Digital
Signal
Processor
Biometrics
Sensor
4022
4018
Voice/Video
Player
Input/Output
Processor
Keypad
4024
4036
4016
Display
4026
4010
Wired Comm
Interface
4028
Clock Source
4032
Data